

SONY®

PROFESSIONAL DISC RECORDER

PDW-V1

XDCAM™
Professional Disc System



MPEG IMX

DVCAM™



OPERATION MANUAL
1st Edition (Revised 1)

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

THIS APPARATUS MUST BE EARTHED.

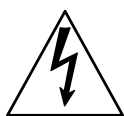
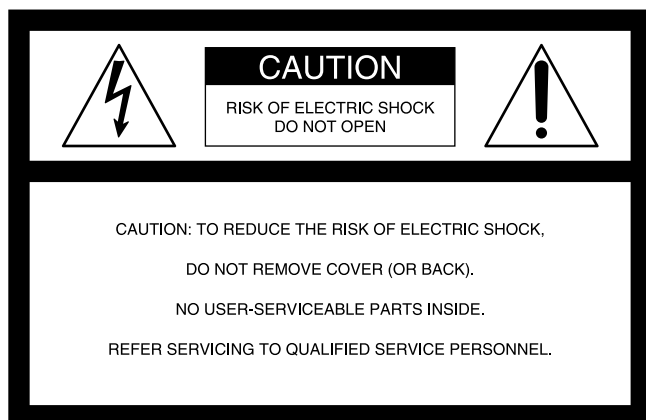
CAUTION

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquid, such as vases, shall be placed on the apparatus.

The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

Do not install the appliance in a confined space, such as a book case or built-in cabinet.

This apparatus is provided with a main switch on the rear panel. Install this apparatus so that user can access the main switch easily.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: THIS WARNING IS APPLICABLE FOR USA ONLY.

If used in USA, use the UL LISTED power cord specified below.

DO NOT USE ANY OTHER POWER CORD.

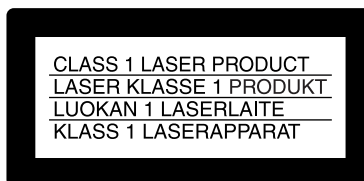
Plug Cap	Parallel blade with ground pin (NEMA 5-15P Configuration)
Cord	Type SJT, three 16 or 18 AWG wires
Length	Minimum 1.5 m, Less than 2.5 m (8 ft 3 in)
Rating	Minimum 10 A, 125 V

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

WARNING: THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.

1. Use the approved Power Cord (3-core mains lead)/Appliance Connector/Plug with earthing-contacts that conforms to the safety regulations of each country if applicable.
2. Use the Power Cord (3-core mains lead)/Appliance Connector/Plug conforming to the proper ratings (Voltage, Ampere).

If you have questions on the use of the above Power Cord/ Appliance Connector/Plug, please consult a qualified service personnel.



This Professional Disc Recorder is classified as a CLASS 1 LASER PRODUCT.

Laser diode properties

Wavelength: 403 to 410 nm

Emission duration: Continuous

Laser output power: 65 mW (max. of pulse peak), 35 mW (max. of CW)

Tekniska data för laserdiod

Våglängd: 403 till 410 nm

Emissionslängd: Kontinuerlig

Laserut effekt: 65 mW (max. för pulstopp), 35 mW (max. för kontinuerlig våg)

Spesifikasjoner laserdiode

Bølgelengde: 403 til 410 nm

Strålingens varighet: Kontinuerlig

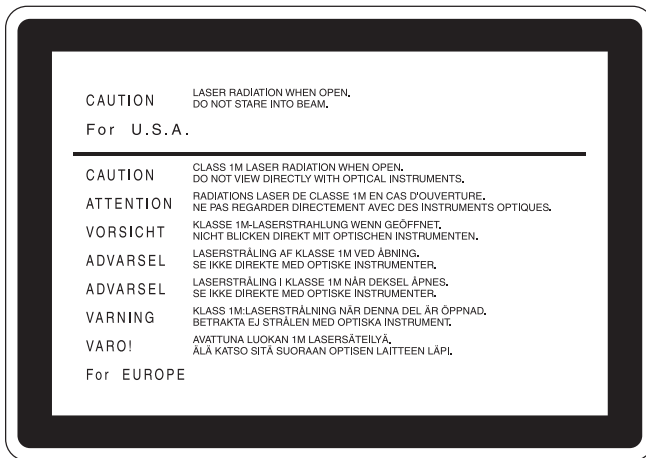
Laserens effekt: 65 mW (maks stråletpunkt), 35 mW (maks ved kontinuerlig stråling)

Laserdiodin ominaisuudet

Aallon pituus: 403 - 410 nm

Välityksen kesto: Jatkuva

Laserlähdon teho: 65 mW (sykehuipun maks.), 35 mW (jatkuvan aallon maks.)



This label is located on the top panel of the drive unit.

CAUTION

As the laser beam used in this Professional Disc Recorder is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

CAUTION

The use of optical instruments with this product will increase eye hazard.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING

OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures;

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in the USA

This product contains mercury. Disposal of this product may be regulated if sold in the USA. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (www.eiae.org <http://www.eiae.org>).

For the customers in the USA and Canada

• RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbrc.org/>

Caution: Do not handle damaged or leaking lithium-ion batteries.

• RECYCLING NICKEL METAL HYDRIDE BATTERIES

Nickel metal hydride batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.



For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.rbrc.org/>

Caution: Do not handle damaged or leaking lithium-ion batteries.

For the customers in Europe

This product with the CE marking complies with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European standards:

- EN60065: Product Safety
- EN55103-1: Electromagnetic Interference (Emission)
- EN55103-2: Electromagnetic Susceptibility (Immunity)

This product is intended for use in the following Electromagnetic Environment(s):

E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors) and E4 (controlled EMC environment, ex. TV studio).

Voor de Klanten in Nederland

- Dit apparaat bevat een vast ingebouwde batterij die niet vervangen hoeft te worden tijdens de levensduur van het apparaat.
- Raadpleeg uw leverancier indien de batterij toch vervangen moet worden.
De batterij mag alleen vervangen worden door vakbekwaam servicepersoneel.
- Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).
- Lever het apparaat aan het einde van de levensduur in voor recycling, de batterij zal dan op correcte wijze verwerkt worden.



For Customers in Taiwan only



廢電池請回收

AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer l'appareil à la pluie ou à l'humidité.

Afin d'écarter tout risque d'électrocution, garder le coffret fermé. Ne confier l'entretien de l'appareil qu'à un personnel qualifié.

CET APPAREIL DOIT ÊTRE RELIÉ À LA TERRE.

ATTENTION

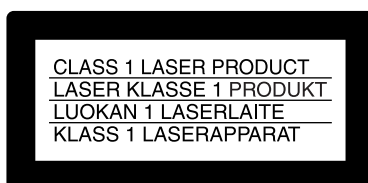
Eviter d'exposer l'appareil à un égouttement ou à des éclaboussures et ne placer aucun objet rempli de liquide, comme un vase, sur l'appareil.

Cet appareil n'est pas déconnecté de la source d'alimentation secteur tant qu'il est raccordé à la prise murale, même si l'appareil lui-même a été mis hors tension.

Ne pas installer l'appareil dans un endroit confiné, par exemple une bibliothèque ou un placard encastré.

Cet appareil possède son interrupteur principal sur le panneau arrière. Installer l'appareil de façon que l'utilisateur puisse accéder facilement à l'interrupteur principal.

Avant d'utiliser un câble à fiche modulaire :
Par mesure de sécurité, ne pas raccorder à un connecteur pour câblage de périphérique qui pourrait avoir une tension excessive.



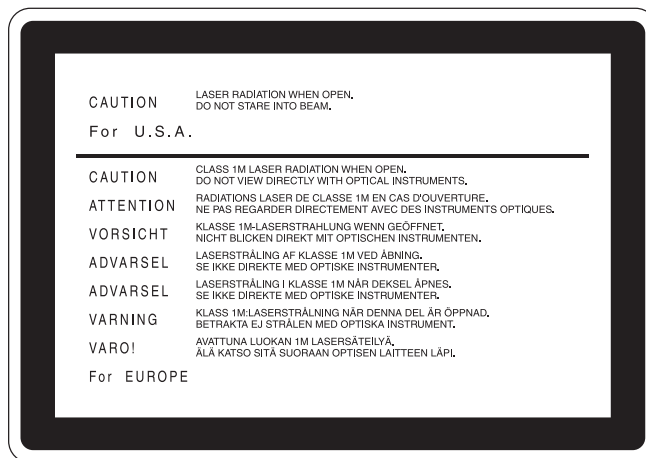
Cet enregistreur de disques pour professionnels est classé PRODUIT LASER DE CLASSE 1.

Propriétés de la diode laser

Longueur d'onde : 403 à 410 nm

Durée d'émission : Continue

Puissance de sortie laser : 65 mW (maxi de crête d'impulsion), 35 mW (maxi d'ondes entretenues)



Cette étiquette est placée sur le panneau supérieur de l'unité de commande.

ATTENTION

Comme le rayon laser utilisé dans cet Enregistreur de disques pour professionnels est dangereux pour les yeux, ne pas essayer de démonter le coffret. Faire effectuer l'entretien uniquement par un personnel qualifié.

ATTENTION

L'emploi d'instruments optiques avec ce produit augmentera les risques pour les yeux.

ATTENTION

L'emploi de commandes ou ajustements ou l'exécution de procédures autres que celles spécifiées ici peut provoquer une exposition dangereuse au rayonnement.

Pour les utilisateurs aux Etats-Unis et au Canada.

- RECYCLAGE DES ACCUMULATEURS AUX IONS DE LITHIUM

Les accumulateurs aux ions de lithium sont recyclables.

Vous pouvez contribuer à préserver l'environnement en rapportant les piles usées dans un point de collection et recyclage le plus proche.



Pour plus d'informations sur le recyclage des accumulateurs, téléphonez au numéro gratuit 1-800-822-8837 (Etats-Unis et Canada uniquement), ou visitez <http://www.rbrrc.org/>

Avertissement : Ne pas utiliser des accumulateurs aux ions de lithium qui sont endommagés ou qui fuient.

- RECYCLAGE DES ACCUMULATEURS À HYDRURE MÉTALLIQUE DE NICKEL

Les accumulateurs à hydrure métallique de nickel sont recyclables.

Vous pouvez contribuer à préserver l'environnement en rapportant les piles usées dans un point de collection et recyclage le plus proche.



Pour plus d'informations sur le recyclage des accumulateurs, téléphonez au numéro gratuit 1-800-822-8837 (Etats-Unis et Canada uniquement), ou visitez <http://www.rbr.org/>

Avertissement : Ne pas utiliser des accumulateurs aux ions de lithium qui sont endommagés ou qui fuient.

Pour les clients européens

Ce produit portant la marque CE est conforme à la fois à la Directive sur la compatibilité électromagnétique (EMC) (89/336/CEE) et à la Directive sur les basses tensions (73/23/CEE) émises par la Commission de la Communauté européenne.

La conformité à ces directives implique la conformité aux normes européennes suivantes :

- EN60065 : Sécurité des produits
- EN55103-1 : Interférences électromagnétiques (émission)
- EN55103-2 : Sensibilité électromagnétique (immunité)

Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants :

E1 (résidentiel), E2 (commercial et industrie légère), E3 (urbain extérieur) et E4 (environnement EMC contrôlé ex. studio de télévision).

AVERTISSEMENT :

1. Utilisez un câble d'alimentation (cordon secteur trifilaire), un connecteur d'appareil ménager et une fiche avec mise à la terre homologués selon la réglementation de votre pays, le cas échéant.
2. Utilisez un câble d'alimentation (cordon secteur trifilaire), un connecteur d'appareil ménager et une fiche dont la capacité en tension (V) et en intensité électrique (A) convient à cet appareil.

Pour toute question au sujet de l'utilisation du câble d'alimentation, du connecteur d'appareil ménager ou de la fiche mentionnés ci-dessus, consultez un réparateur qualifié.

WARNUNG

Um Feuergefahr und die Gefahr eines elektrischen Schlages zu vermeiden, darf das Gerät weder Regen noch Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur qualifiziertem Fachpersonal.

DIESES GERÄT MUSS GEERDET WERDEN.

ACHTUNG

Das Gerät ist nicht tropf- und spritzwassersicher, daher dürfen keine mit Flüssigkeiten gefüllten Gegenstände, z. B. Vasen, darauf abgestellt werden.

Solange das Netzkabel an eine Netzsteckdose angeschlossen ist, bleibt das Gerät auch im ausgeschalteten Zustand mit dem Stromnetz verbunden.

Das Gerät nicht an Orten aufstellen, z.B. in Bücherregalen oder Einbauschränken, wo keine ausreichende Belüftung gewährleistet ist.

Der Hauptschalter dieses Geräts befindet sich an der Rückwand. Stellen Sie das Gerät so auf, dass jederzeitiger Zugriff auf diesen Hauptschalter gewährleistet ist.

Bei Verwendung eines Kabels mit RJ-11-Stecker: Aus Sicherheitsgründen nicht mit einer Komponente verbinden, die u.U. eine übermäßig hohe Spannung führt.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

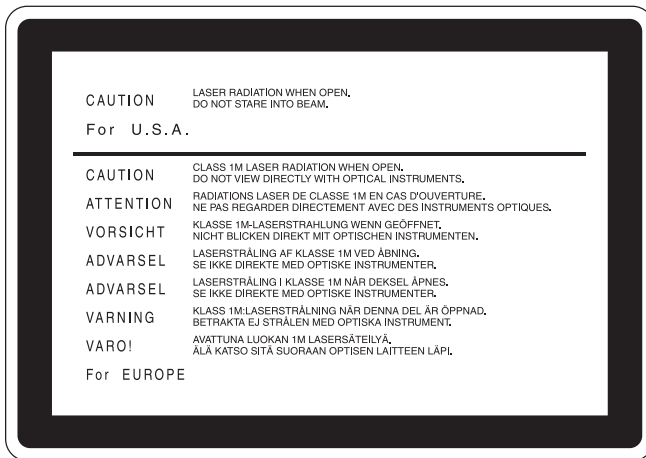
Dieser Professional Disc Recorder ist als CLASS 1 LASER PRODUCT eingestuft.

Eigenschaften der Laserdiode

Wellenlänge: 403 bis 410 nm

Emissionsdauer. Ununterbrochen

Laser-Ausgangsleistung: 65 mW (max. Impulsspitze), 35 mW (max. Dauerstrich)



Dieser Aufkleber befindet sich oben auf der Antriebseinheit.

VORSICHT

Die Laserstrahlung im Innern ist augenschädlich. Deshalb den Professional Disc Recorder nicht öffnen/zerlegen. Wartungsarbeiten ausschließlich qualifiziertem Fachpersonal überlassen.

VORSICHT

Der Einsatz von optischen Hilfen verstärkt die Gefahr von Augenschäden.

VORSICHT

Bei Betätigung von Bedien- und Einstellteilen oder Ausführung von Bedienvorgängen, die nicht ausdrücklich in dieser Bedienungsanleitung aufgeführt sind, droht u.U. die Einwirkung gefährlicher Laserstrahlung.

GEFAHR

Bei geöffnetem Laufwerk und beschädigter oder deaktivierter Verriegelung tritt ein unsichtbarer Laserstrahl aus. Direkter Kontakt mit dem Laserstrahl ist unbedingt zu vermeiden.

Für Kunden in Europa

Dieses Produkt besitzt die CE-Kennzeichnung und erfüllt die EMV-Richtlinie (89/336/EWG) sowie die Niederspannungsrichtlinie (73/23/EWG) der EG-Kommission. Angewandte Normen:

- EN60065: Sicherheitsbestimmungen
- EN55103-1: Elektromagnetische Verträglichkeit (Störaussendung)
- EN55103-2: Elektromagnetische Verträglichkeit (Störfestigkeit),

für die folgenden elektromagnetischen Umgebungen: E1 (Wohnbereich), E2 (kommerzieller und in beschränktem Maße industrieller Bereich), E3 (Stadtgebiet im Freien) und E4 (kontrollierter EMV-Bereich, z.B. Fernsehstudio)

1. Für Ihren privat genutzten Videorecorder muß eine Fernseh-Rundfunk-Genehmigung beantragt werden, sofern nicht bereits eine Genehmigung für ein Fernsehgerät desselben Haushaltes vorliegt. Im geschäftlichen Bereich ist jeder einzelne Videorecorder anmelde- und gebührenpflichtig. (Auskunft ggf. bei der GEZ oder den Rundfunkanstalten.)
2. Im privaten Bereich ist die Aufzeichnung von urheberrechtlich geschützten Werken auf Bild- und Tonträger gestattet. Die entsprechenden Urhebervergütungen sind im Kaufpreis des Gerätes enthalten. Öffentliche Wiedergabe oder Verbreitung von mitgeschnittenen Fernsehsendungen ist ohne Erlaubnis nicht zulässig, verpflichtet zu Schadenersatz und ist gegebenenfalls strafbar.
3. Im Rahmen der Regelung des §47 des Urheberrechtsgesetzes sind Aufzeichnungen von Schulfernsehprogrammen gestattet. Mitschnitte von Schulfunksendungen dürfen jedoch nur für den Unterricht verwendet werden und sind spätestens am Ende des laufenden Schuljahres zu löschen.

ACHTUNG:

1. Verwenden Sie ein geprüftes Netzkabel (3-adriges Stromkabel)/einen geprüften Geräteanschluss/einen geprüften Stecker mit Schutzkontakten entsprechend den Sicherheitsvorschriften, die im betreffenden Land gelten.
2. Verwenden Sie ein Netzkabel (3-adriges Stromkabel)/einen Geräteanschluss/einen Stecker mit den geeigneten Anschlusswerten (Volt, Ampere).

Wenn Sie Fragen zur Verwendung von Netzkabel/ Geräteanschluss/Stecker haben, wenden Sie sich bitte an qualifiziertes Kundendienstpersonal.

Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden. Es sind die zutreffenden nationalen Errichtungs- und/oder Gerätebestimmungen zu beachten. (Für einen Nennstrom bis 6A)

Es ist eine geprüfte flexible PVC-ummantelte Leitung entsprechend IEC 60227 (H05VV-F 3G 0.75 mm² oder H05VVH2-F 3G 0.75 mm²) zu verwenden.

Andernfalls ist eine flexible Leitung aus synthetischem Gummi entsprechend IEC 60245 (Bauartkurzzeichen H05RR-F 3G 0.75 mm²) zu verwenden.

ATTENZIONE

Per evitare il pericolo di incendi o scosse elettriche, non esporre l'apparecchio alla pioggia o all'umidità.

Per evitare scosse elettriche, non aprire l'apparecchio.

Per le riparazioni, rivolgersi solo a personale qualificato.

QUESTO APPARECCHIO DEVE ESSERE MESSO A TERRA.

ATTENZIONE

L'apparecchio non deve essere esposto a gocciolamenti o spruzzi. Non collocare sull'apparecchio oggetti contenenti liquidi, come ad esempio vasi di fiori.

L'apparecchio non è scollegato dalla fonte di alimentazione CA (corrente di rete) fintanto che è collegato ad una presa di corrente, anche se l'apparecchio stesso è stato spento.

Evitate di installare l'apparecchio in uno spazio limitato, tipo in una libreria o in un mobiletto incassato.

Questo apparecchio è provvisto di interruttore principale posizionato sul pannello posteriore. Installare l'apparecchio in modo tale che l'utente possa accedere facilmente all'interruttore principale.

Quando si usa un cavo a presa modulare Per sicurezza non collegare ad un connettore per il collegamento di periferiche, che potrebbe avere una tensione eccessiva.



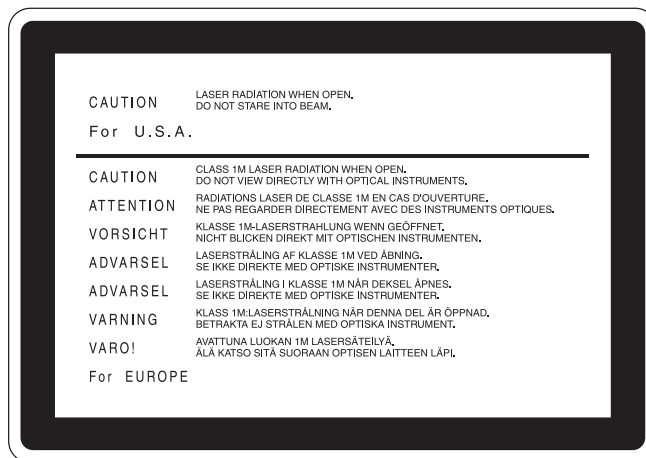
Questo registratore di dischi professionale è classificato come **PRODOTTO LASER CLASSE 1**.

Proprietà del laser a diodo

Lunghezza d'onda: da 403 a 410 nm

Durata emissione: Continua

Potenza d'emissione del laser: 65 mW (mass. a picco di impulso), 35 mW (mass. di CW)



Questa etichetta si trova sul pannello superiore dell'unità di pilotaggio.

CAUTELE

Poiché il raggio laser impiegato in questo registratore di dischi professionale è dannoso alla vista, non tentare di smontare il rivestimento. Per la manutenzione rivolgersi esclusivamente a personale qualificato.

CAUTELE

L'uso di strumenti ottici con questo prodotto aumenta il rischio per la vista.

CAUTELE

L'uso di comandi o regolazioni o l'esecuzione di procedimenti diversi da quelli specificati in questo manuale possono causare esposizione a radiazioni pericolose.

Per i clienti in Europa

Questo prodotto recante il marchio CE è conforme sia alla direttiva sulla compatibilità elettromagnetica (EMC) (89/336/CEE) che alla direttiva sulle basse tensioni (73/23/CEE) emesse dalla Commissione della Comunità Europea. La conformità a queste direttive implica la conformità alle seguenti normative europee:

- EN60065: Sicurezza dei prodotti
- EN55103-1: Interferenza elettromagnetica (Emissione)
- EN55103-2: Sensibilità ai disturbi elettromagnetici (Immunità)

Questo prodotto è destinato all'uso nei seguenti ambienti elettromagnetici:

E1 (residenziali), E2 (commerciali e industriali leggeri), E3 (esterni urbani) e E4 (ambienti EMC controllati, ad esempio studi televisivi).

ATTENZIONE:

1. Utilizzare un cavo di alimentazione (a 3 anime)/connettore per l'apparecchio/spina con terminali di messa a terra approvati che siano conformi alle normative sulla sicurezza in vigore in ogni paese, se applicabili.
2. Utilizzare un cavo di alimentazione (a 3 anime)/connettore per l'apparecchio/spina conforme alla rete elettrica (voltaggio, ampere).

In caso di domande relative all'uso del cavo di alimentazione/connettore per l'apparecchio/spina di cui sopra, consultare personale qualificato.

ADVERTENCIA

Para evitar el riesgo de incendios o electrocución, no exponga la unidad a la lluvia ni a la humedad.

Para evitar descargas eléctricas, no abra el aparato. Solicite asistencia técnica únicamente a personal especializado.

ESTE APARATO DEBE CONECTARSE A TIERRA.

PRECAUCIÓN

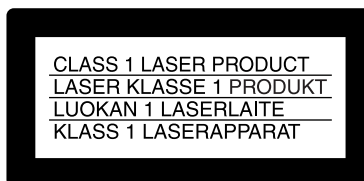
No se debe exponer la unidad a derrames ni goteos, ni se debe situar cerca objetos llenos de líquido, como por ejemplo vasos.

La unidad no queda desconectada de la alimentación eléctrica siempre que esté conectado al tomacorriente incluso aunque se desconecte el interruptor principal.

No instale el aparato en un lugar estrecho como en una biblioteca o mueble integrado.

Este aparato tiene el interruptor principal en el panel trasero. Instale este aparato de tal forma que pueda utilizar fácilmente el interruptor principal.

Cuando utilice un cable con clavija modular:
Por motivos de seguridad, no conecte a ningún conector para dispositivos periféricos que puedan utilizar tensión excesiva.



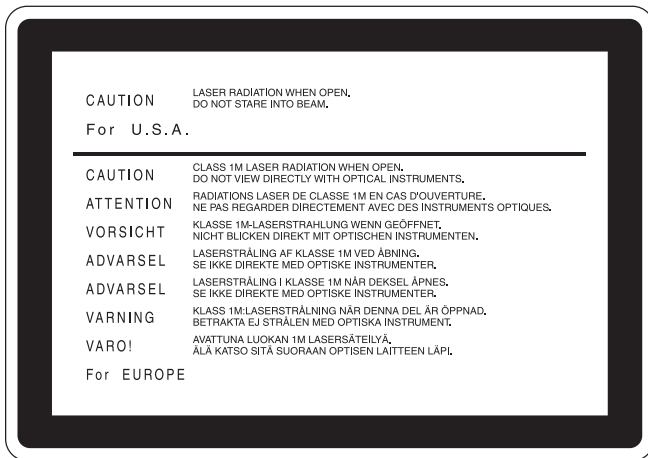
Este grabador de discos profesional está clasificado como CLASS 1 LASER PRODUCT.

Propiedades del diodo láser

Longitud de onda: 403 a 410 nm

Duración de la emisión: Continua

Potencia de salida láser: 65 mW (máx. de pico de pulso),
35 mW (máx. de onda continua)



Esta etiqueta se encuentra en el panel superior de la unidad de mando.

CAUTION

Como el rayo láser utilizado en este grabador de discos profesional es peligroso para los ojos, no trate de desarmar la caja. Solicite el servicio sólo al personal cualificado.

CAUTION

El uso de instrumentos ópticos con este producto aumentará el peligro a los ojos.

CAUTION

La utilización de controles o ajustes, o la realización de procedimientos no especificados aquí pueden resultar en la exposición a radiación peligrosa.

Para los clientes de Europa

Este producto cumple con las directivas de compatibilidad electromagnética (89/336/CEE) y baja tensión (73/23/CEE) de la Comisión Europea.

El cumplimiento de estas directivas implica la conformidad con los siguientes estándares europeos:

- EN60065: Seguridad del producto
- EN55103-1: Interferencia electromagnética (Emisión)
- EN55103-2: Susceptibilidad electromagnética (Inmunidad)

Este producto está ha sido diseñado para utilizarse en los entornos electromagnéticos siguientes:

E1 (zona residencial), E2 (zona comercial e industrial ligera), E3 (exteriores urbanos), y E4 (entorno con EMC controlada, p. ej., estudio de televisión).

ADVERTENCIA:

1. Utilice el cable de alimentación (3 conductores eléctricos), el conector de dispositivos y el enchufe con contactos de puesta a tierra aprobados que cumplen con las normas de seguridad de cada país, si existen.
2. Utilice el cable de alimentación (3 conductores eléctricos), el conector de dispositivos y el enchufe que cumplen los valores nominales adecuados (voltaje, amperios).

Si tiene alguna pregunta acerca del uso del cable de alimentación, el conector de dispositivos o el enchufe, póngase en contacto con el personal de servicio cualificado.

警告

为防止火灾或电击危险，请勿让本机受到雨淋或受潮。

为避免电击，请勿打开机壳。维修事宜应仅由合格维修人员进行。

本机必须接地。

注意

请勿让本机被液体淋湿或溅湿，勿将花瓶等装有液体的容器放置在本机上。

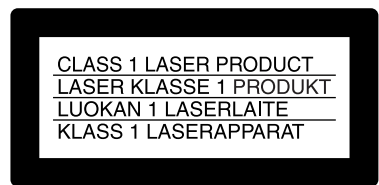
只要本机与墙壁引出线相连，即使本机自身已关机，本机也未与 AC 交流电源（主电源）断开。

请勿将本机安装在狭窄的空间中，如书橱或壁橱。

本机后面板上有一个主开关，请恰当地安装本机以方便接近该开关。

使用模块插孔电缆时：

为安全起见，请勿将外围设备线连接到一个连接器，否则可能造成过压。



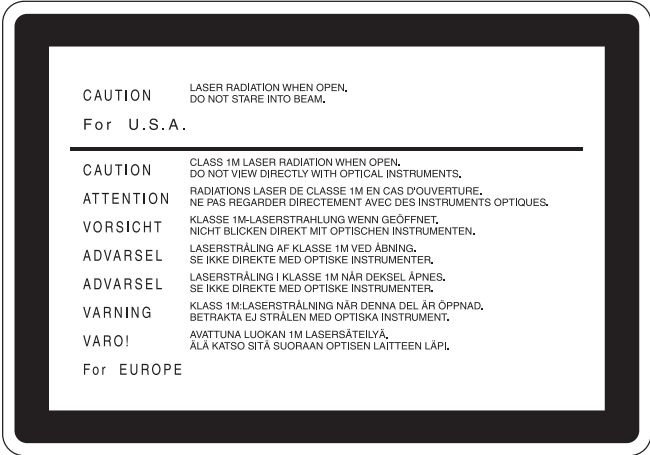
该专业光盘录像机被列为一类激光产品。

激光二极管特性

波长：403—410 nm

发射持续时间：连续

激光输出功率：65 mW（最大脉冲峰值），35 mW（最大连续波）



该标签位于驱动器装置的顶部面板。

注意

由于本专业光盘录像机使用的激光束对眼睛有害，请勿试图拆卸机壳。维修事宜应仅由合格维修人员进行。

注意

光学仪器与本产品一起使用会增加伤害眼睛的危险性。

注意

未按照此处规定的程序使用控制器、进行调整或操作可能会导致危险的辐射暴露。

警告：

1. 请使用经认可的电源线（3 芯电源线）／设备接口／插头，其接地接头应符合各国家适用的安全法规。
2. 请使用符合特定额定值（电压、安培）的电源线（3 芯电源线）／设备接口／插头。

如果对上述电源线／设备接口／插头的使用有疑问，请垂询合格维修人员。

Table of Contents

Before Using the Unit	14
Setting the Line Mode	14

Chapter 1 Overview

1-1 Features	16
1-2 Using the CD-ROM Manual	18
1-2-1 CD-ROM System Requirements	18
1-2-2 Preparations	18
1-2-3 Reading the CD-ROM Manual	18

Chapter 2 Names and Functions of Parts

2-1 Configuration	19
2-2 Control Panel	20
2-3 LCD Panel	24
2-4 Connectors	27

Chapter 3 Preparations

3-1 Connections and Settings	29
3-1-1 Connecting an External Monitor	29
3-1-2 Connections for Using PDZ-1 Proxy Browsing Software	30
3-1-3 Connecting to a Nonlinear Editing System	32
3-2 Power Preparations	33
3-2-1 Using AC Power	33
3-2-2 Using a Battery Pack	33
3-3 Setup	33
3-4 Setting the Date and Time	34
3-5 Superimposed Text Information	34
3-6 Handling Discs	36
3-6-1 Discs Used for Playback	36
3-6-2 Notes on Handling	36
3-6-3 Write-Protecting Discs	36
3-6-4 Loading and Unloading a Disc	37
3-6-5 Formatting a Disc	37
3-6-6 To Eject Discs With the Unit Powered Off	38
3-6-7 Using the Salvage Function	38

Chapter 4 Playback

4-1 Preparations for Playback	39
4-2 Playback Operation	40

4-3 Thumbnail Search	42
4-3-1 Cuing Up a Desired Clip	42
4-3-2 Cuing Up a Frame Including an Essence Mark	43
4-4 Clip List Playback	44
4-4-1 Playing Back in Clip List Order	44
4-4-2 Cuing Up With Sub Clip Thumbnails	44

Chapter 5 Scene Selection

5-1 Overview	45
5-2 Basic Operations	46
5-2-1 Creating Clip Lists	46
5-2-2 Editing Clip Lists	48
5-3 Clip List Operations	51
5-3-1 Displaying the CLIP Menu	51
5-3-2 Saving the Current Clip List to Disc	51
5-3-3 Loading a Clip List From Disc Into the Current Clip List	52
5-3-4 Deleting Clip Lists From Disc	52
5-3-5 Clearing the Current Clip List	53
5-3-6 Setting the Start Timecode of the Current Clip List	53
5-4 Using PDZ-1 Proxy Browsing Software 54	

Chapter 6 File Operations

6-1 Overview	55
6-1-1 Directory Structure	55
6-1-2 File Operation Restrictions	56
6-2 File Access Mode File Operations	58
6-3 FTP File Operations	59
6-3-1 Command List	61

Chapter 7 Menus

7-1 Menu System Configuration	66
7-2 Basic Setup Menu	67
7-2-1 Items in the Basic Setup Menu	67
7-2-2 Basic Menu Operations	69
7-3 Extended Menu	72
7-3-1 Items in the Extended Menu	72
7-3-2 Extended Menu Operations	75
7-3-3 Using UMID Data	77
7-4 Maintenance Menu	79
7-4-1 Items in the Maintenance Menu	79

7-4-2 Maintenance Menu Operations.....	81
7-5 System Menu	84
7-5-1 Items in the System Menu	84
7-5-2 System Menu Operations.....	84

Chapter 8 Maintenance and Troubleshooting

8-1 Periodic Maintenance	86
8-1-1 Digital Hours Meter.....	86
8-2 Error Messages	87
8-3 Alarms.....	87
8-3-1 Alarm List.....	87
8-4 Condensation	93

Appendixes

Specifications.....	94
Using the Shoulder Belt	95
Glossary	96
Index.....	98

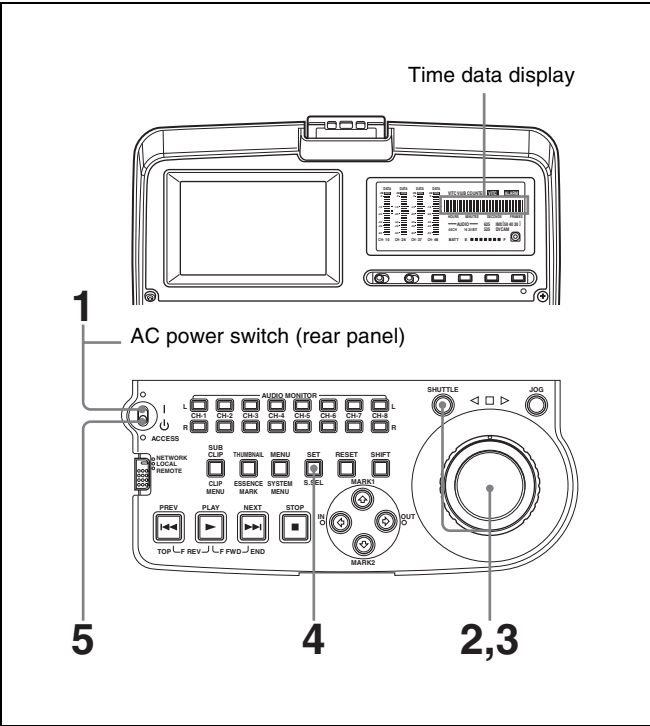
Before Using the Unit

Setting the Line Mode

This unit is shipped with the line mode still unset. Therefore you need to set the line mode before using the unit. (The unit cannot be used unless the line mode is set.) Once it is set, the line mode is retained even when the unit is powered off.

Setting procedure

Use the following procedure to set the line mode.



- 1** Power the unit on.

“Select ----” appears in the time data display.



- 2** With the SHUTTLE button held down, rotate the jog dial.

When you rotate the jog dial in the forward direction, the “----” part of the display changes in the sequence 525U > 525J > 625. When you rotate it in the reverse direction, the display changes in the sequence 625 > 525J > 525U.



Setting	Line mode
525U	525(U): NTSC (areas outside Japan)
525J	525(J): NTSC (Japan)
625	625: PAL

- 3** When the desired setting appears, release the SHUTTLE button.

“Push SET !!” appears.



To redo the selection
Repeat step **2**.

- 4** Press the SET button.

“Turn OFF !!” appears.



- 5** Power the unit off, and then power it on again.

The selected line mode becomes available for use.

You can change the setting made with this procedure by using basic menu item 013 “525/625 SYSTEM SELECT.” See 7-2-2 “Basic Menu Operations” (page 69) for more information about how to make basic menu settings.

Note

The line mode is not set, or is cleared, in the following situations. Reset the line mode.

- The unit is powered off before performing step **4** in the previous procedure.
- The “RESET ALL SETUP” command in the maintenance menu (see page 79) is executed.

Settings affected by the line mode



The following settings are affected when the line mode is changed.

- Alarm message language
525(J): Japanese
525(U)/625: English
- The following menu item names, setting values, or initial setting values

Item No.	Item name
Basic menu	
002	CHARACTER H-POSITION
003	CHARACTER V-POSITION
Extended menu	

Item No.	Item name
601	VITC POSITION SEL-1
602	VITC POSITION SEL-2
628	DF MODE
652	UMID SDI VANC LINE
660	ESSENCE MARK SDI VANC LINE
703	BLANK LINE SELECT
713	VIDEO SETUP REFERENCE OUTPUT LEVEL
718	SETUP LEVEL/BLACK LEVEL

1-1 Features

The PDW-V1 Professional Disc Recorder is a compact and lightweight unit, offered as an affordable solution for playing back optical discs as well as for audio and video data file recording through its  (network) connector or S400 (i.LINK ¹⁾) connector. It is ideal for field applications, and for desktop viewing by journalists, producers, and other production staff.

1) i.LINK is a trademark of Sony Corporation.



The features of the PDW-V1 include the following.

Playback of MPEG IMX/DVCAM

The PDW-V1 offers the capability to play back both MPEG IMX ¹⁾ and DVCAM ¹⁾ streams. Users have the flexibility to select from these formats according to their picture-quality needs.

1) MPEG IMX and DVCAM are trademarks of Sony Corporation.

Recording video and audio data as files

Though the PDW-V1 does not have video and audio input connectors, it is possible to record AV data as files through its  (network) connector or S400 (i.LINK) connector.

Proxy AV data

The proxy AV data is a low-resolution, MPEG-4 based version of the full-resolution MPEG IMX/DVCAM stream. When a full-resolution MPEG IMX/DVCAM file is transferred, a proxy AV stream file that is time code synchronized with the full-resolution stream, is also created automatically on the disc. This proxy AV data, which is smaller in size, is easier to work with and can be transferred over common networks at much greater speeds. The proxy AV data can be transferred at up to 30 times faster than real time.

Thumbnail search operation

Simply press the THUMBNAIL button and the PDW-V1 instantly displays these thumbnails on either its LCD display or a connected monitor. You can easily cue up the desired scene by guiding the cursor to the corresponding thumbnail and confirming your selection with the SET button.

Scene selection




You can create and play back clip lists of selected clips from the disc, arranged in any order. One disc can store up to 99 clip lists. Clip lists make it simple to perform offline editing in the field for later use with full-scale nonlinear editing systems (XPRI ¹⁾, etc.).

1) XPRI is a trademark of Sony Corporation.

Quick picture search by jog and shuttle dials

The PDW-V1 has jog and shuttle dials as a conventional VTR to search picture in a clip. The jog dial is for frame-by-frame search at ± 1 times normal speed and the shuttle dial is for high-speed search at up to ± 20 times normal speed.

IT-friendly system

In the Professional Disc, clips are recorded as video and audio data files ¹⁾. This file-based recording system also allows material to be viewed directly on a computer linked to the PDW-V1 via an i.LINK (file access mode, called FAM below) connection—in the same way that a computer reads data files on an external drive. The interfaces include the S400 (i.LINK) connector, supporting AV/C (Audio/Video Control) and i.LINK (FAM) protocols, and  (network) connector. The  (network) connector supports MXF (Material eXchange Format) file transfer capability to exchange contents with other equipment supporting MXF.

1) A clip is created every time recording is stopped.

Supporting digital and analog interfaces

This unit supports the following interfaces.

Digital interfaces

SDI: This allows the unit to output D1 (component) format digital video and audio signals.

i.LINK: The DVCAM format digital video and audio signals can be input and output. This unit supports the AV/C and FAM protocols. Connecting a computer with the FAM driver installed allows video and audio data to be transferred at high speeds.

Analog interfaces

Video: The unit can output a composite analog video signal.

Audio: The unit can output two-channel stereo audio signals.

DVCAM output from MPEG IMX playback

When the PDW-V1 plays back an MPEG IMX stream, it outputs a corresponding DVCAM stream at the same time through its i.LINK (AV/C) port. This is very useful when carrying out off-line editing with a popular non-linear editor using DVCAM format.

Flexible metadata handling

XDCAM¹⁾ can record various types of metadata together with video and audio data, such as the date and time of shooting, the cameraman, the recording method, and comments about the material. This metadata can be used in applications such as the following.

- The supplied PDZ-1 Proxy Browsing Software can be used to add titles, comments, and other text data to discs and clips.
- Computer-readable text files can be recorded on the Professional Disc, to allow systematic content management.
- The ability to search metadata for the required audio and video scenes brings greater efficiency to various stages of the video production process (editing, archiving, etc.).

1) XDCAM is a trademark of Sony Corporation.

Color LCD built-in

With the built-in 3.5-inch type color LCD screen, you can display contents on the disc without an external monitor.

RGB output connector provided

The MONITOR connector outputs analog RGB signals. You can input the signals to a PC-compatible display or projector.

Compact size, lightweight and battery-powered operation

The PDW-V1 is designed small and light enough to carry out to the field and it is operable with battery to work speedily in the field.

Supporting SNMP for service and maintenance¹⁾

The PDW-V1 is compatible with Sony remote maintenance and monitoring software—an SNMP-compliant application that can monitor and log the hardware's status in real time via a TCP/IP network. If a malfunction is detected, this system can immediately identify the problem, allowing you to take corrective action.

1) To be supported shortly.

1-2 Using the CD-ROM Manual

The supplied CD-ROM includes versions of the Operation Manual for the PDW-V1 in English, Japanese, French, German, Italian, Spanish, and Chinese.

1-2-1 CD-ROM System Requirements

The following are required to access the supplied CD-ROM disc.

- Computer: PC with Intel Pentium CPU
 - Installed memory: 64 MB or more
 - CD-ROM drive: × 8 or faster
- Monitor: Monitor supporting resolution of 800 × 600 or higher
- Operating system: Microsoft Windows Millennium Edition, Windows 2000 Service Pack 2 or higher, Windows XP Professional or Windows XP Home Edition

When these requirements are not met, access to the CD-ROM disc may be slow, or not possible at all.

1-2-2 Preparations

One of the following programs must be installed on your computer in order to use the operation manuals contained on the CD-ROM disc.

- Adobe Acrobat Reader Version 4.0 or higher
- Adobe Reader Version 6.0 or higher

Note

If Adobe Reader is not installed, you can download it from the following URL:

<http://www.adobe.com/products/acrobat/readstep2.html>

1-2-3 Reading the CD-ROM Manual

To read the operation manual contained on the CD-ROM disc, do the following.

- 1 Insert the CD-ROM disc in your CD-ROM drive.

A cover page appears automatically in your browser. If it does not appear automatically in the browser, double-click the index.htm file on the CD-ROM disc.

- 2 Select and click the operation manual that you want to read.

This opens the PDF file of the operation manual.

Note

If you lose the CD-ROM disc or become unable to read its content, for example because of a hardware failure, you can do one of the following.

- You can purchase a new CD-ROM disc to replace one that has been lost or damaged. Contact your Sony service representative.
- You can purchase printed versions of the operation manuals. Contact your Sony service representative. When ordering, be sure to specify the part number of the manual you want.

Part No.	Models covered
3-796-066-0X	PDW-V1

- Intel and Pentium are registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
- Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.
- Adobe, Acrobat, and Adobe Reader are trademarks of Adobe Systems Incorporated in the United States and/or other countries.

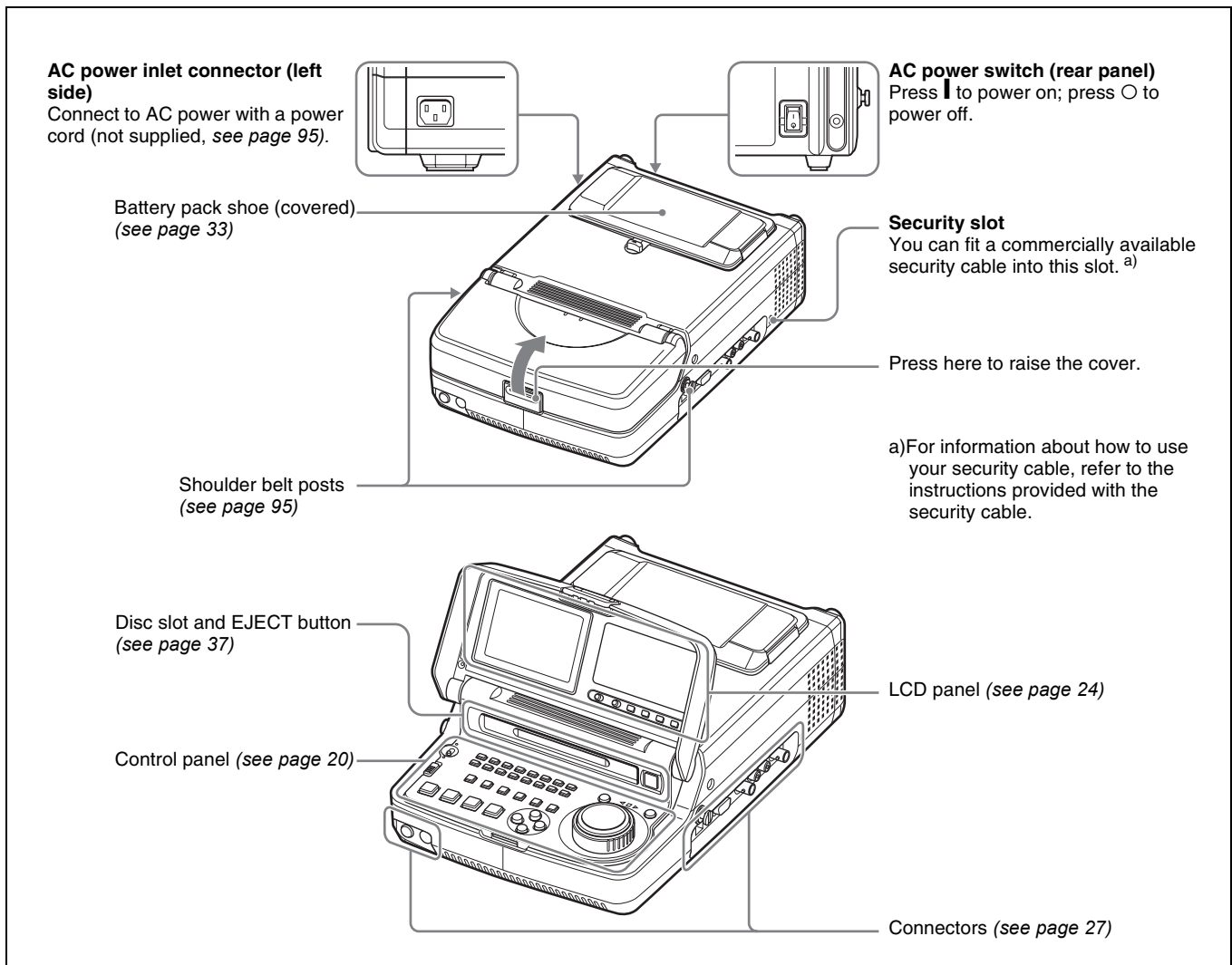
Names and Functions of Parts

Chapter

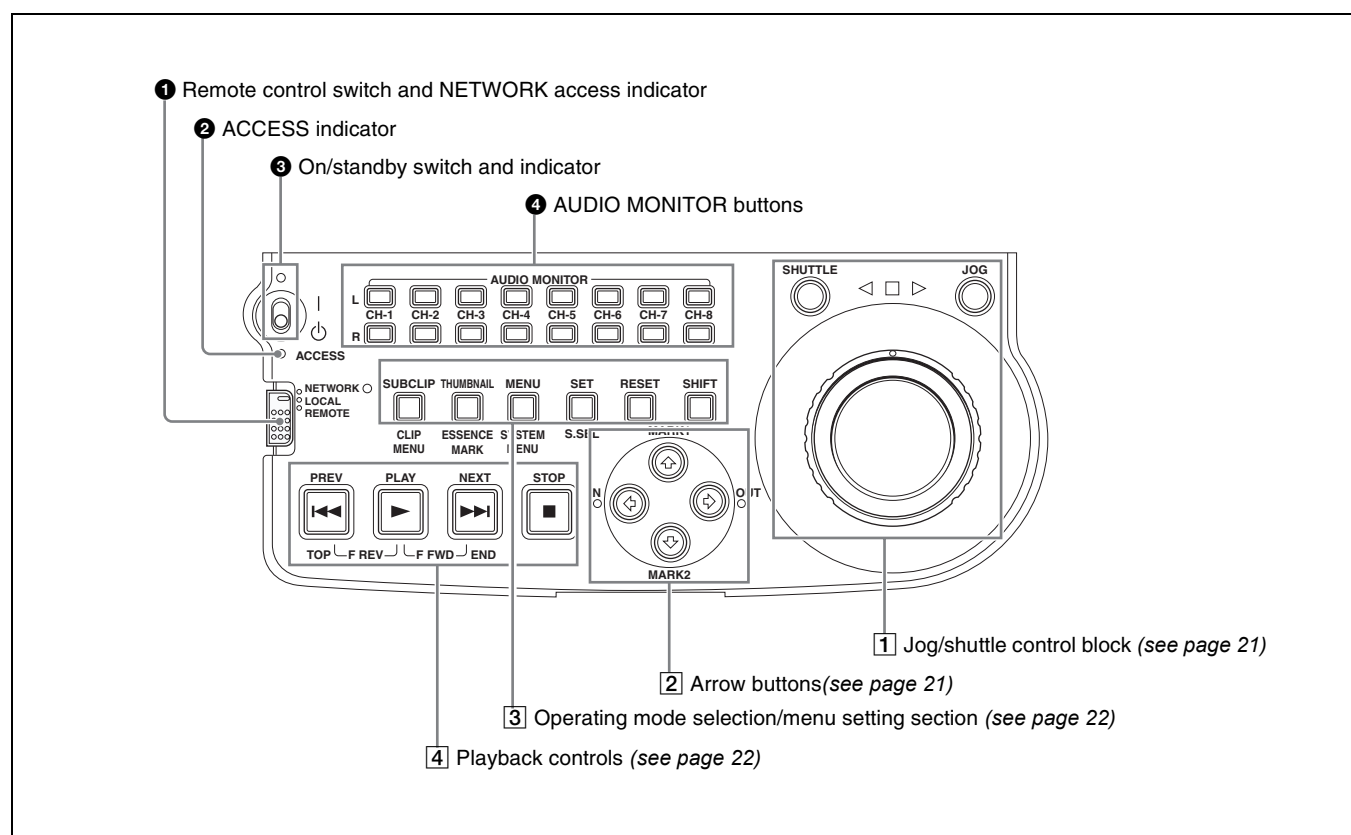
2

2-1 Configuration

Operation of the PDW-V1 uses the parts shown in the following figure.



2-2 Control Panel



1 Remote control switch and NETWORK access indicator


Different positions of the switch allow different operations as follows.

NETWORK: Enables access to the network. The indicator lights when an external network device is being accessed. In this state, operation from the control panel is not possible.

LOCAL: Enables operation from the control panel.

REMOTE: Enables remote control of the PDW-V1 from a device connected to the iS400 (i.LINK) connector on the side panel.






2 ACCESS indicator


This lights when the disc is accessed and when a file is opened by a FAM or FTP connections (see page 55). If the on/standby switch is set to the  position while this indicator is lit, access to the disc is completed before the unit switches to the standby state.

Note

While the ACCESS indicator is lit, do not turn off the AC power switch, disconnect the power cord, or remove the battery. This could lead to a loss of data from the disc.

3 On/standby (/) switch and indicator

When the AC power switch on the rear panel is in the  position, or a battery is loaded, this switches the PDW-V1 between the operating () and standby () states. When the switch is moved to the  position, the indicator lights. When the switch is moved to the  position, the indicator goes off.

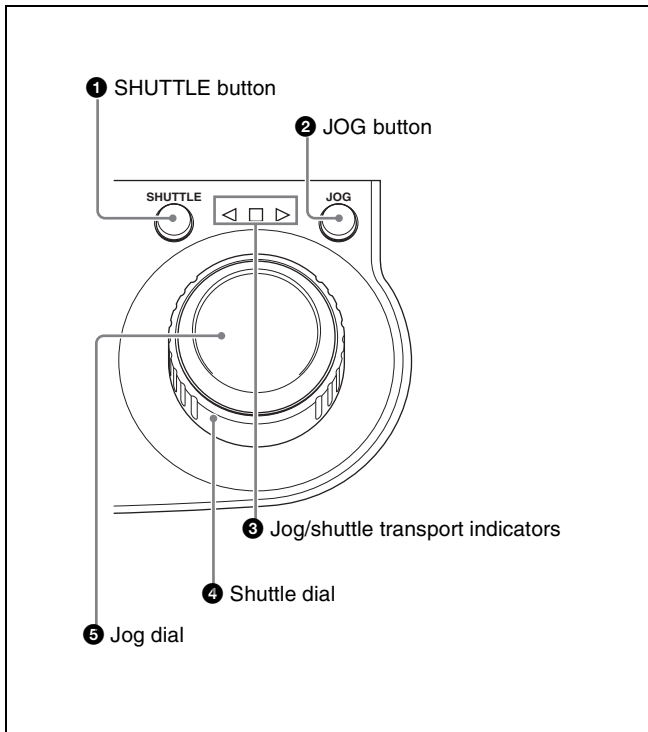
When operating the PDW-V1 from an AC power supply, normally leave the AC power switch in the  position, and switch the PDW-V1 between the operating and standby states using the on/standby switch.

4 AUDIO MONITOR (audio monitor channel selection) buttons

Each of the L (upper) and R (lower) rows has buttons CH-1 to CH-8 corresponding to channels 1 to 8. When a button is pressed, it lights, and the corresponding audio channel is output from the PHONES jack and speaker on the front panel and AUDIO MONITOR OUT L/R connectors on the side panel.

In each of the L and R rows, if the buttons for more than one channel are selected simultaneously, the selected channels are mixed on the audio monitor output.

1 Jog/shuttle control block



For details of playback operations with these buttons and dials, see 4-2 “Playback Operation” on page 40.

1 SHUTTLE button

To play back in shuttle mode using the shuttle dial, press this button, turning it on. Pressing the JOG button or turning the jog dial switches to jog mode.

2 JOG button

To play back in jog mode using the jog dial, press this button, turning it on. Pressing the SHUTTLE button or turning the shuttle dial switches to shuttle mode.

3 Jog/shuttle transport indicators

These show the playback direction in jog or shuttle mode.

- ◀ (green): Lights during playback in the reverse direction.
- ▶ (green): Lights during playback in the forward direction.
- (red): Lights during still image display.

4 Shuttle dial

Turn this for playback in shuttle mode. Turn clockwise for forward direction playback, and counterclockwise for reverse direction playback. In shuttle mode, the playback speed varies in the range ± 20 times normal speed, according to the angular position of the shuttle dial. The shuttle dial has a detent at the center position, for still image playback.

Normally, you press the SHUTTLE button before turning the shuttle dial, but it is also possible to make a setting to enable shuttle mode directly by turning the shuttle dial (set extended menu item 101 “SELECTION FOR SEARCH DIAL ENABLE” to “dial”).

Note

When extended menu item 101 “SELECTION FOR SEARCH DIAL ENABLE” is set to “dial,” after using the shuttle dial, return it to the center position. If the shuttle dial is not in the center position, it is possible occasionally for vibration from other operations to activate the dial, and start playback in shuttle mode.

5 Jog dial

Turn this for playback in jog mode. Turn clockwise for forward direction playback, and counterclockwise for reverse direction playback. In jog mode, the playback speed varies in the range ± 1 times normal speed, according to the rotation rate of the jog dial. There are no detents. Normally, you press the JOG button before turning the jog dial, but it is also possible to make a setting to enable jog mode directly by turning the jog dial (set extended menu item 101 “SELECTION FOR SEARCH DIAL ENABLE” to “dial”).

2 Arrow buttons

The four arrow buttons are also used as the MARK1 button, MARK2 button, IN button, and OUT button. The correspondence with the buttons is as follows.

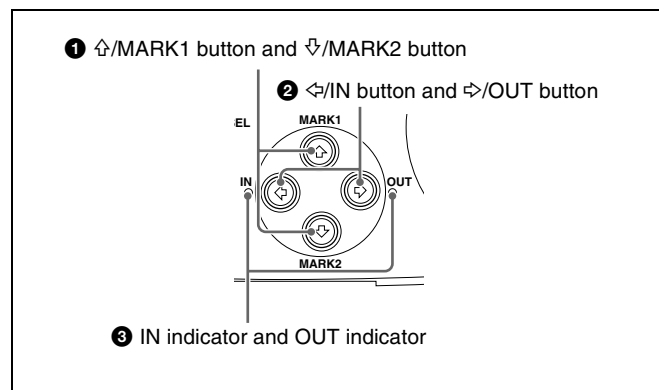
⇧ button: MARK1 button

⇩ button: MARK2 button

⇐ button: IN button

⇒ button: OUT button

You can use these buttons for thumbnail selection, menu setting operations, setting IN/OUT points, and so on.



1 ⇧/MARK1 button and ⇩/MARK2 button

When the THUMBNAIL button is lit, you can use these for thumbnail selection.

During playback, the ⇧/MARK1 and ⇩/MARK2 buttons can be pressed with the SET button held down to record a shot mark 1 or shot mark 2 as an essence mark.

To delete or change essence marks, use the supplied PDZ-1 Proxy Browsing Software.

2 ⇐/IN button and ⇒/OUT button

When the THUMBNAIL button is lit, you can use these for thumbnail selection.

An In or Out point is set when you press the SET button with the ⇄/IN or ⇄/OUT button held down. The In or Out point setting is deleted when you press the RESET button with the ⇄/IN or ⇄/OUT button held down.

③ IN indicator and OUT indicator

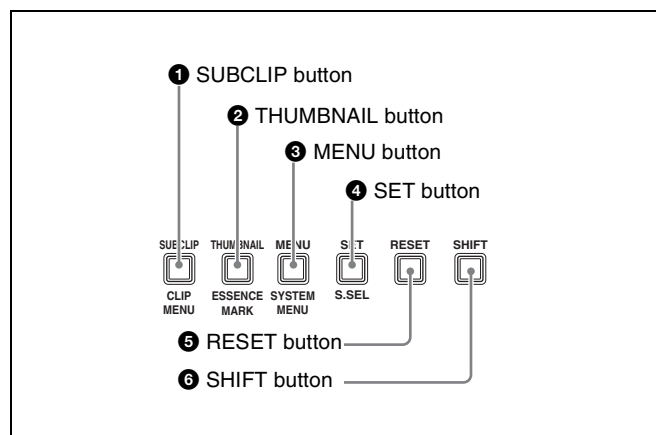
IN indicator: When an IN point can be set, this flashes, and when the IN point is set it changes to continuously lit.

If an attempt is made to set the IN point after a recorded OUT point, this flashes rapidly.

OUT indicator: When an OUT point can be set, this flashes, and when the OUT point is set it changes to continuously lit.

If an attempt is made to set the OUT point before a recorded IN point, this flashes rapidly.

③ Operating mode selection/menu setting section



① SUBCLIP button

Press this button, turning it on, to play back following a clip list. This is also valid for jog and shuttle operations. To play the clips in the order they are recorded, press this again, turning it off.

Note

If no clip list is registered, this button does not light when pressed. The operation is invalid.

② THUMBNAIL button

To carry out a thumbnail search or scene selection, press this button turning it on. Thumbnail images representing each clip appear. Press once more to turn the button off, and return to a whole-screen display.

To display the thumbnails of essence mark frames (frames with an essence mark attached), hold down the SHIFT button, and press this button. The essence mark selection menu appears. Select the desired type of essence mark, and the corresponding essence mark frames appear in thumbnails. Press once more, turning the button off, to return to a whole-screen display.

③ MENU button

Use for setup menu operations. Pressing this displays the setting of a setup menu item in the time data display. Press once more to return to the original display.

④ SET button

Use for setup menu settings, scene selection (thumbnail) settings, and so on.

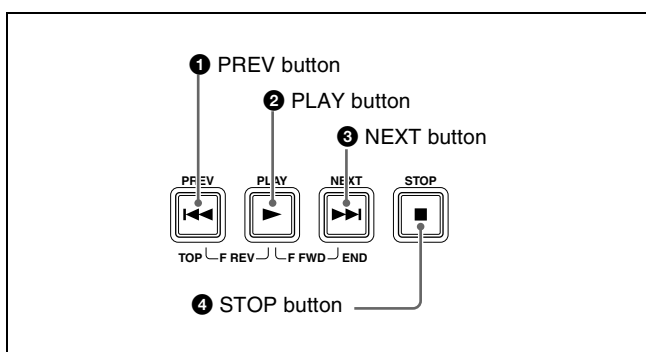
⑤ RESET button

Press to reset the counter. This is also used to cancel setup menu settings and abandon scene selection (thumbnail).

⑥ SHIFT button

Use to switch the functions of various buttons.

④ Playback controls



① PREV (previous) button

Press this, turning it on, to show the first frame of the current clip. While the first frame of a clip is shown, pressing this button jumps to the beginning of the previous clip.

This button is also used together with other buttons for the following operations.

Reverse direction high-speed search: Hold down the PLAY button, and press this button. A high-speed search in the reverse direction is carried out.

Displaying the first frame of the first clip: Hold down the SHIFT button, and press this button.

② PLAY button

To start playback, press this button, turning it on.

③ NEXT button

Press this, turning it on, to show the first frame of the next clip.

This button is also used together with other buttons for the following operations.

Forward direction high-speed search: Hold down the PLAY button, and press this button. A high-speed search in the forward direction is carried out.

Displaying the last frame of the last clip: Hold down the SHIFT button, and press this button.

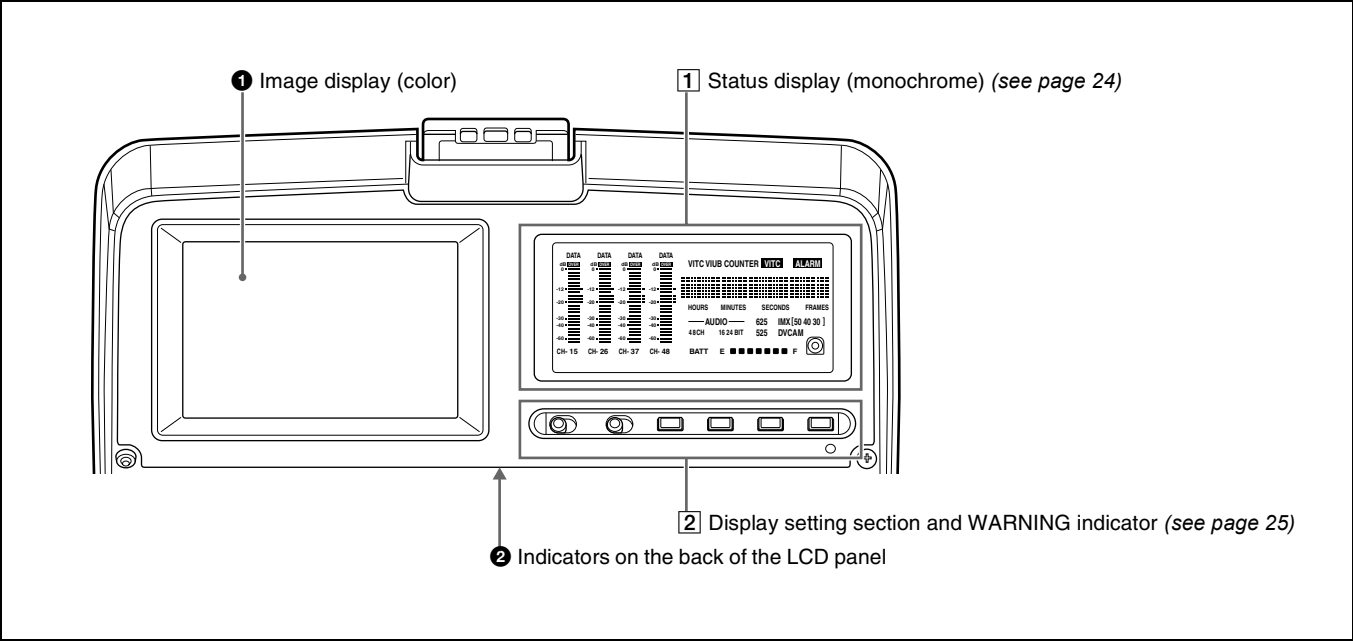
④ STOP button

To stop playback, press this button, turning it on. The frame at the stop point appears.

The unit enters standby off mode when you press this button with the SHIFT button held down. It returns from standby off mode to the original state when you press this button again with the SHIFT button held down. (The lit or unlit status of the STOP button does not change.)

This unit can automatically enter standby mode whenever a specified time elapses in disc stop mode. For details, see the description of extended menu item 501 “STILL TIMER” (page 72).

2-3 LCD Panel

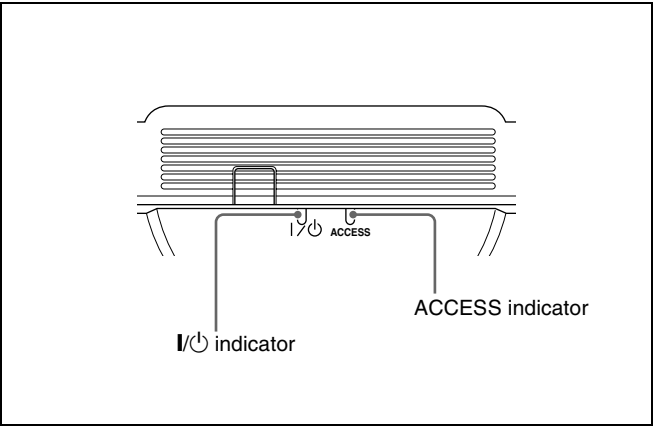


1 Image display (color)

In playback and editing operations, this shows the playback video, clip thumbnail images, and so on.

2 Indicators on the back of the LCD panel

There are two indicators, as follows.



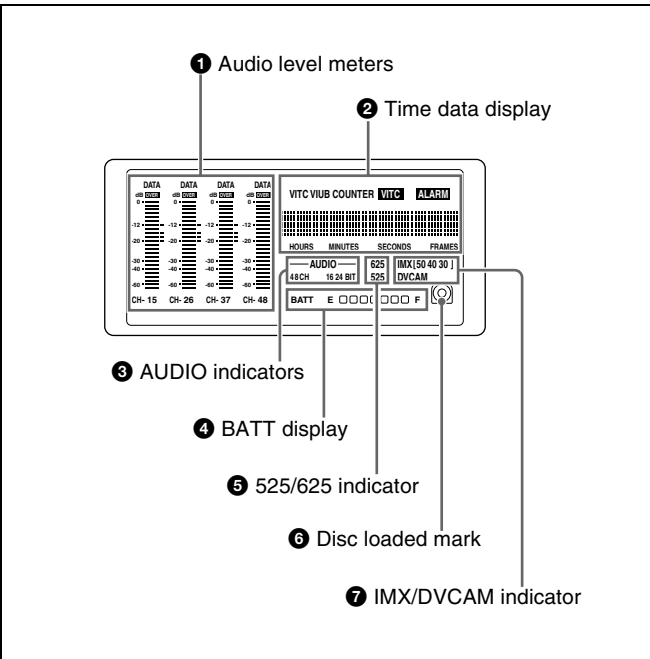
I/O (on/standby) indicator: Lights when the on/standby switch on the control panel is in the on (I) position.

ACCESS indicator: Lights when the disc is being accessed. If the on/standby switch is set to the I/O position while this indicator is lit, access to the disc is completed before the unit switches to the standby state.

Note

While the ACCESS indicator is lit, do not turn off the AC power switch, disconnect the power cord, or remove the battery. This could lead to a loss of data from the disc.

1 Status display (monochrome)



1 Audio level meters

These show the audio levels for channels 1 to 4 or channels 5 to 8. When the audio level exceeds 0 dB on any channel, the **OVER** indicator for that channel lights.

The DATA indicator lights when non-audio signals are played back.

② Time data display

Normally, this shows the disc playback time, time code, or user bit information, as selected by the COUNTER button in the display setting section and the TC/VITC button. It is also used for error messages, setup menus, and other displays.

The following indicators are arranged above the time data display, in sequence from left to right.

TC/VITC (time code type) indicator: This lights when TC is selected by the COUNTER button. A time code appears in the time data display.

When TC is selected by the TC/VITC button, this appears as “TC,” and when VITC is selected, as “VITC.”

UB/VIUB (user bit type) indicator: This lights when UB is selected by the COUNTER button. A user bit value appears in the time data display.

When TC is selected by the TC/VITC button, this appears as “UB,” and when VITC is selected, as “VIUB.”

COUNTER indicator: This lights when COUNTER is selected by the COUNTER button. The elapsed playback time (hours, minutes, seconds, frames) appears in the time data display.

VITC indicator: Regardless of the display on the time data display, this lights when VITC is being read successfully.

ALARM indicator: This lights when a hardware error is detected in the PDW-V1, and goes off when the error is cleared. When this indicator is lit, an error message appears in the time data display.

③ AUDIO indicators

During playback, these show the number of channels recorded on the disc and the number of quantizing bits.

- **Number of channels**
 - 4ch:** 4 channels
 - 8ch:** 8 channels
- **Number of quantizing bits**
 - 16bit:** 16 bits
 - 24bit:** 24 bits

④ BATT (battery) display

This shows the battery charging state as follows.

■■■■■■■■ (7 segments lit): Adequately charged. As the battery discharges, the number of LED segments lit decreases.

“BATT” flashing: Almost exhausted. Operation of the PDW-V1 continues.

“BATT” and “E” flashing: Exhausted (charging required). Operation of the PDW-V1 stops.

⑤ 525/625 (TV system) indicator

This displays the TV system selected in basic menu item 013 “525/625 SYSTEM SELECT.”

525: NTSC, 525 scan lines, field frequency 59.94 Hz

625: PAL, 625 scan lines, field frequency 50 Hz

⑥ Disc loaded mark

This lights while a disc is loaded in the PDW-V1.

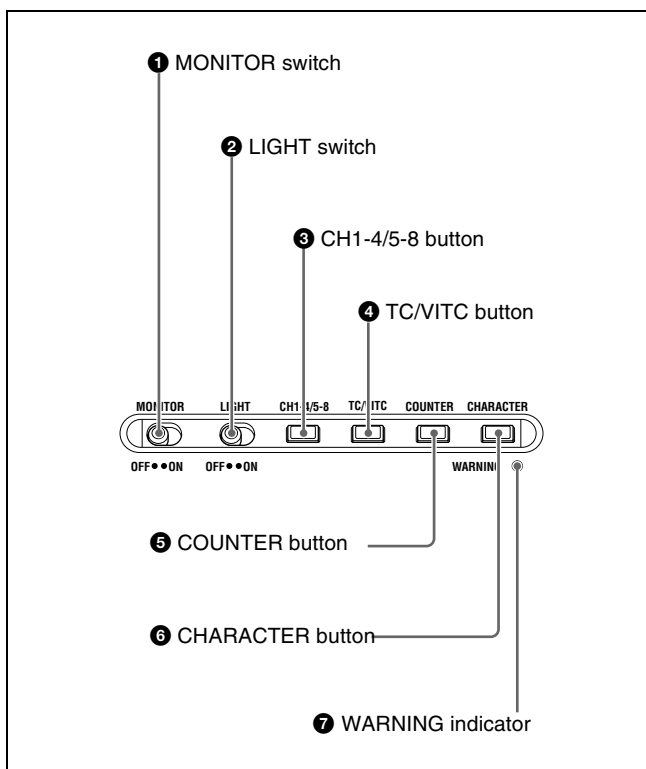
It flashes while the disc is being inserted, and while it is being ejected.

⑦ IMX/DVCAM (playback format) indicator

During playback, this shows the recording format of the inserted disc.

When a disc is not loaded in the unit, and during FAM and FTP connections (*see page 55*), this shows the recording format set by basic menu item 031 “RECORDING FORMAT.”

② Display setting section and WARNING indicator



① MONITOR switch

Selects whether or not the color monitor display operates.

ON: Operate.

OFF: Do not operate.

The factory default setting is ON.

② LIGHT switch

Selects whether the status monitor backlight is on or off.

ON: On.

OFF: Off.

The factory default setting is ON.

③ CH1-4/5-8 (level display channel selection) button

Selects whether the audio level meters show channels 1 to 4 or channels 5 to 8. Every time you press this button, the audio level meter channel display changes to reflect the setting.

The factory default setting is CH1-4.

④ TC/VITC (time code display selection) button

When the time data display is set to TC (time code display), this selects whether to display TC or VITC time code. The TC or VITC indicator in the time data display lights to reflect the selection.

The factory default setting is TC.

⑤ COUNTER (time data display selection) button

Switches the data shown in the time data display through TC, UB, and COUNTER in sequence.

TC: Playback time code read by the internal time code reader

The selection of TC or VITC is made by the TC/VITC button.

UB: User bits included in the playback time code

COUNTER: The elapsed playback time (hours, minutes, seconds, frames). This can be reset by pressing the RESET button (*see page 22*).

The corresponding indicator in the time data display lights to reflect the setting.

The factory default setting is TC.

⑥ CHARACTER button

Selects whether or not to superimpose the time code, menu settings, alarm messages, or other text information on the video signals output from the side panel SDI OUT, VIDEO OUT and MONITOR connectors and also on the unit's image display. Every time you press this button, the setting alternates.

The factory default setting is for superimposing text information.

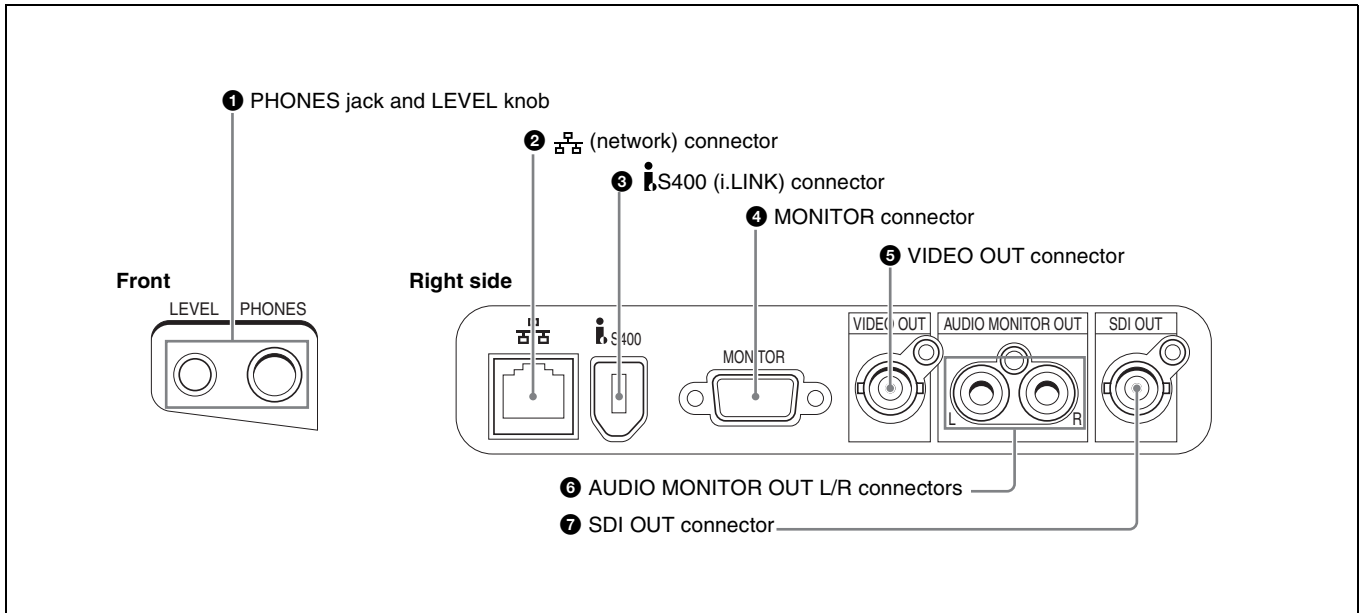
⑦ WARNING indicator

This lights when a fault occurs in the PDW-V1.

For details, see 8-2 "Error Messages" (page 87) and 8-3 "Alarms" (page 87).

2-4 Connectors

For the locations of the AC power inlet connector on the left side of the PDW-V1, and the AC power switch on the rear panel, see the figure on page 19.



1 PHONES jack and LEVEL knob

The jack is a standard stereo jack. Connect stereo headphones with an impedance of 8 ohms, to monitor the audio during playback. The channels monitored are selected by the AUDIO MONITOR buttons. Non-audio signals are muted.

Adjust the volume with the LEVEL knob. You can also set this to simultaneously control the output volume from the AUDIO MONITOR OUT L/R connectors on the side panel. To do this, in the setup menu, set extended menu item 114 “AUDIO MONITOR OUTPUT LEVEL” to “var.”

2 (network) connector (RJ-45, 100Base-TX)

To transfer files between an external device and the PDW-V1, connect a network cable to this connector and the external device.

Note

For safety, when connecting external devices to this connector, do not connect connectors which may have excessive voltage. Follow the instructions in this manual when making connections.

3 iS400 (i.LINK) connector (6-pin, complying with IEEE1394)

Using the AV/C protocol: Outputs a DVCAM format digital video/audio signal.

Using FAM protocol: Transfers files to and from supporting devices.

Notes

- If video or audio signals from an external device connected with the iS400 (i.LINK) connector are not output, disconnect the i.LINK cable and connect it again, pushing it straight in.
- When the PDW-V1 is connected to a device with a 6-pin i.LINK connector by an i.LINK cable, before unplugging the i.LINK cable, first power off the device and disconnect the power plug from the outlet. If the i.LINK cable is unplugged with the device power plug still connected, a current from an excessive voltage (8 to 40 V) output from the i.LINK connector of the device flows into the PDW-V1. This may cause a failure of the PDW-V1.
- When connecting the PDW-V1 to a device with a 6-pin i.LINK connector, connect to the 6-pin i.LINK connector of the other device first.
- Except in playback mode (jog and shuttle modes, etc.), if you are monitoring the audio signal output from this connector on another device, the audio signal may sound differently from the audio signal played back on the PDW-V1.

4 MONITOR connector (D-sub 15-pin)

Outputs analog RGB signals. When connecting a PC-compatible display or projector to this connector, set it for VGA ¹⁾ input.

1) VGA is a registered trademark of International Business Machines Corporation.

5 VIDEO OUT connector (BNC type)

Outputs an analog composite video signal. The time code, menu settings, alarm messages, or other text information can be superimposed on the output video signal. The setting as to whether or not to superimpose text information alternates every time you press the CHARACTER button (*see page 26*).

6 AUDIO MONITOR OUT L/R connectors (pin jacks)

Output the audio signals for the channels selected with the AUDIO MONITOR button L and R rows on the control panel.

Non-audio signals are muted.

7 SDI (serial digital interface) OUT connector (BNC type)

Outputs video/audio signals in D1 format. The time code, menu settings, alarm messages, or other text information can be superimposed on the output video signal. The setting as to whether or not to superimpose text information alternates every time you press the CHARACTER button (*see page 26*).

3-1 Connections and Settings

3-1-1 Connecting an External Monitor

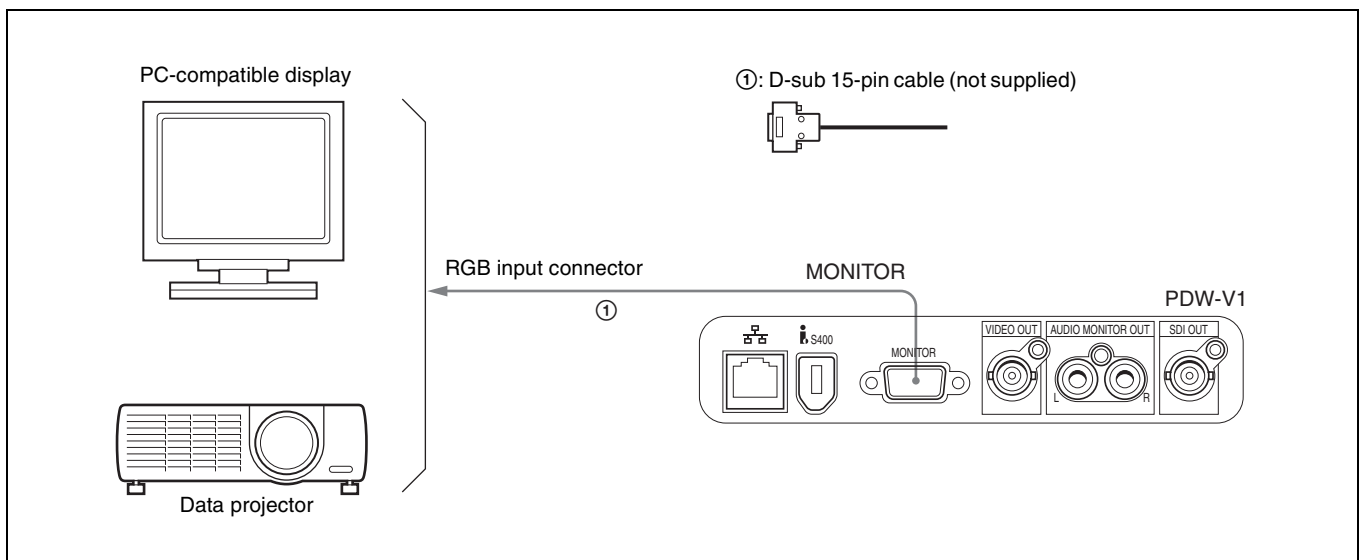
Connecting a video monitor to the MONITOR, VIDEO OUT, or SDI OUT connector of this unit enables you to see the output video on the monitor screen.

Example connections are shown in the following.

When connecting to the MONITOR connector

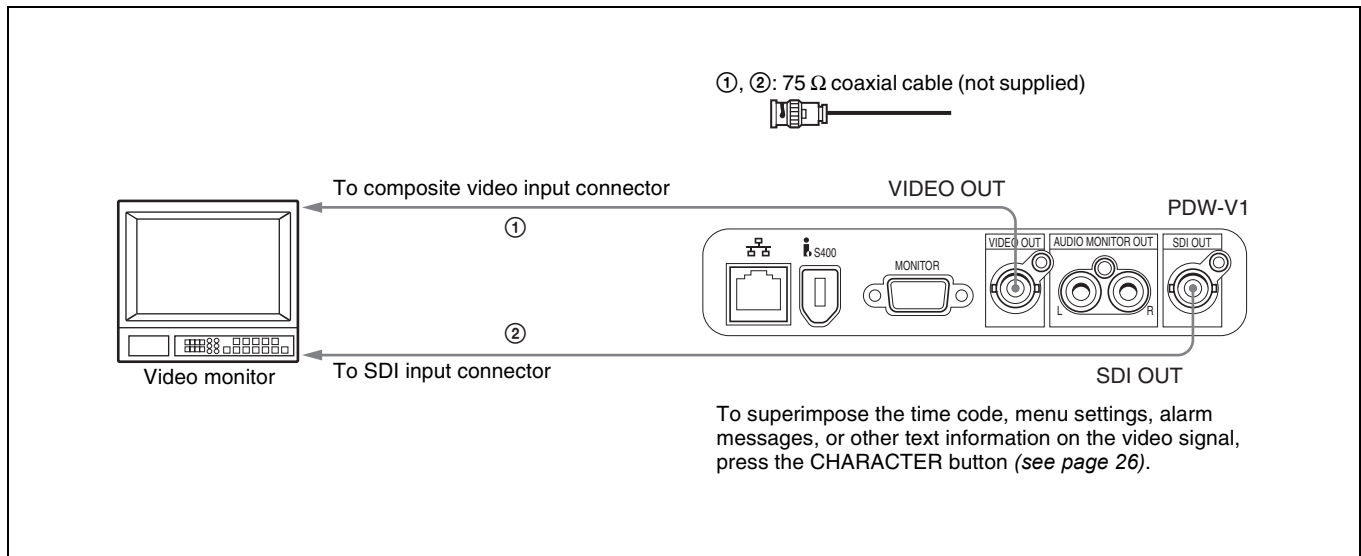
Note

Set the PC-compatible display or data projector to which to connect this unit for VGA input beforehand.



When connecting to the VIDEO OUT or SDI OUT connector

Connect a video monitor as example ① or ② shown in the following figure.



3-1-2 Connections for Using PDZ-1 Proxy Browsing Software

Using the supplied PDZ-1 Proxy Browsing Software, you can carry out simple editing with proxy AV data.

For an overview of PDZ-1 and how to install the software, see 5-4 “Using PDZ-1 Proxy Browsing Software” on page

54.

For information about how to use the software, refer to the Help provided in the software.

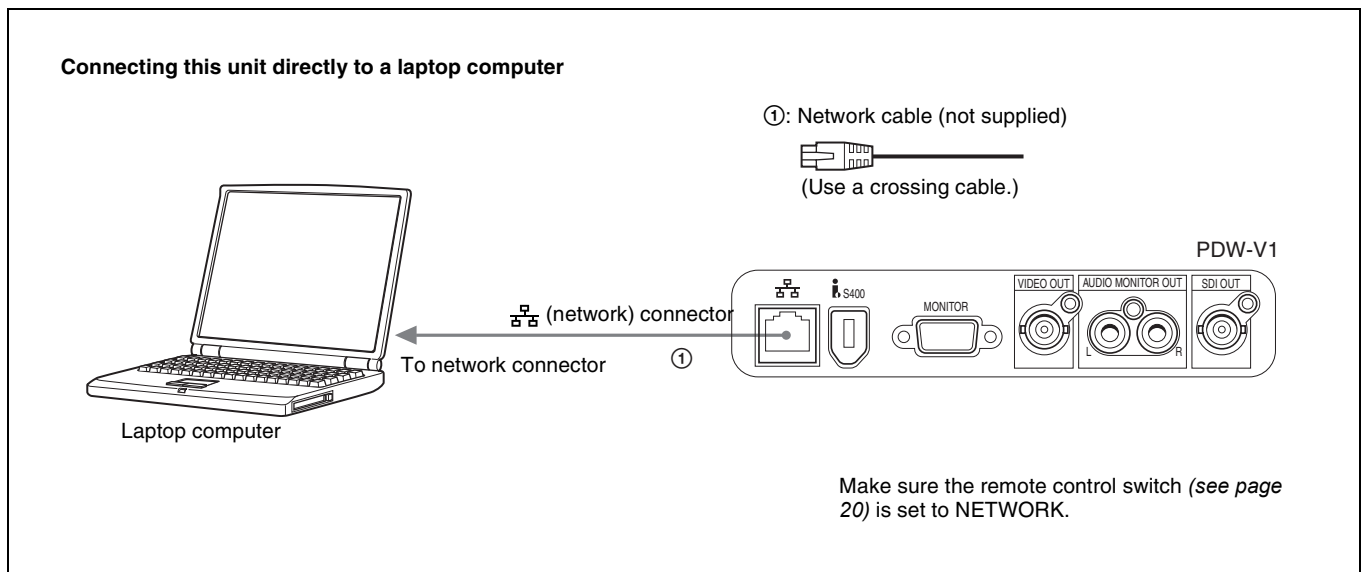
Using the (network) connector (FTP connection)

The following shows an example of an FTP (File Transfer Protocol) connection.

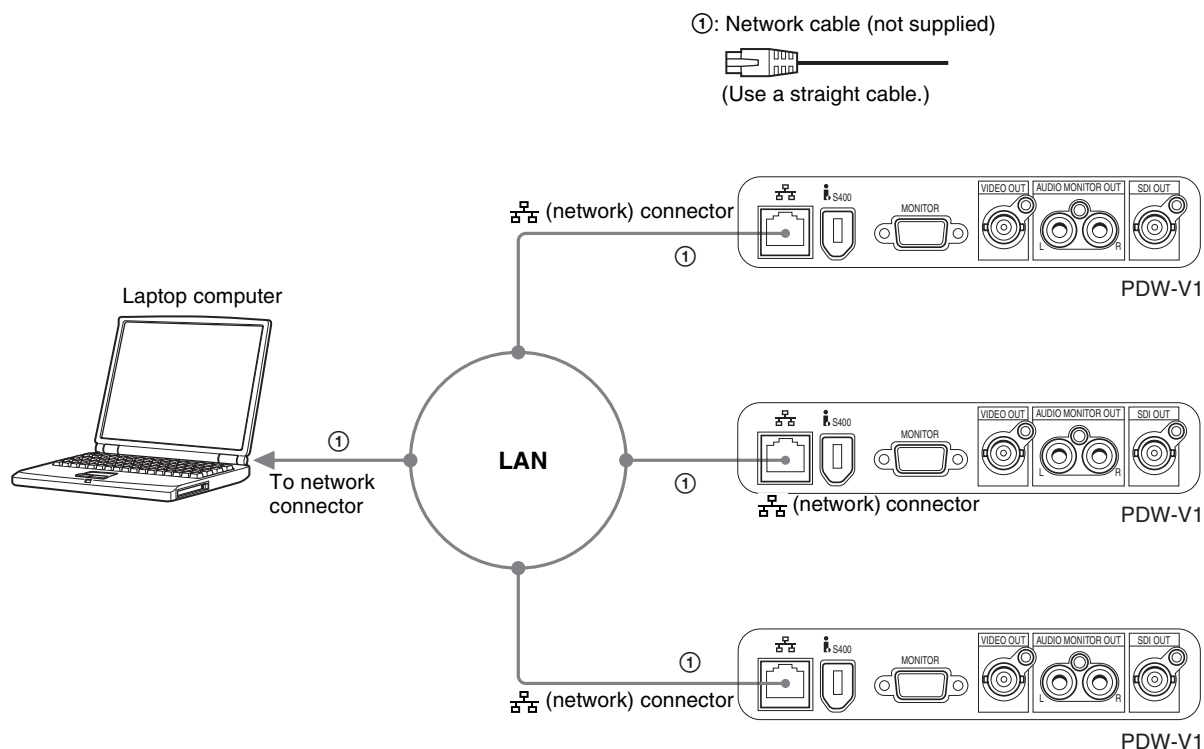
For details of the network-related settings, see “To change network settings” (page 82).

Note

To use PDZ-1 requires the PDW-V1 IP address and other network-related settings to be made beforehand.



Connecting three PDW-V1 units to a laptop computer via a LAN.



Make sure the remote control switch (see page 20) is set to NETWORK on each of the three PDW-V1 units.

Using the iS400 (i.LINK) connector (FAM connection)

The following shows an example of a FAM (file access mode) connection.

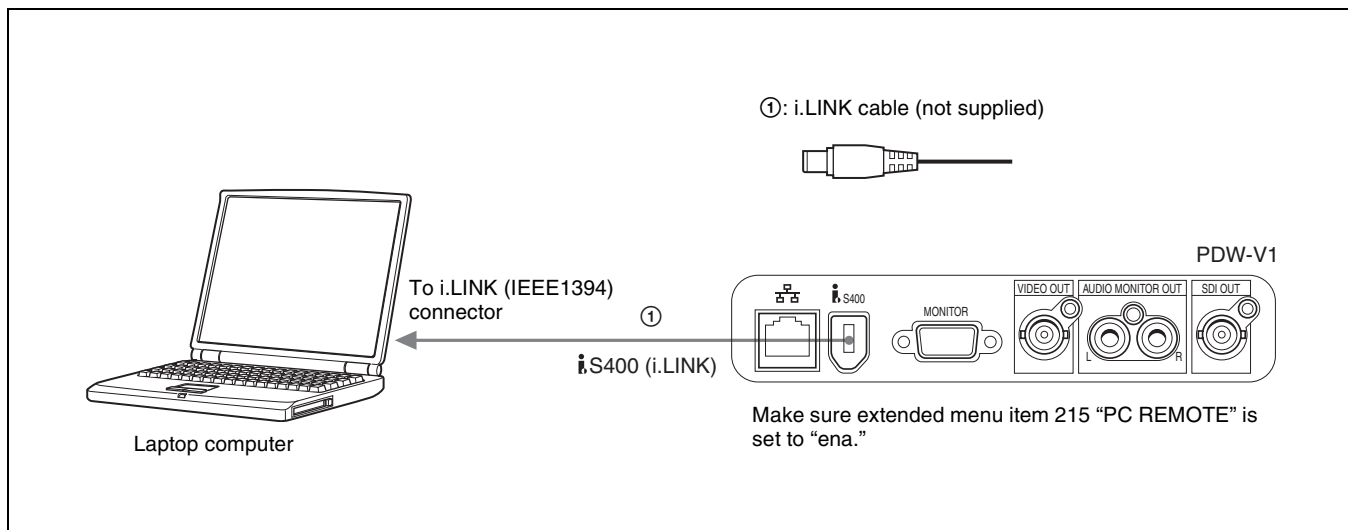
Note

The PDZ-1 Proxy Browsing Software must be installed in advance.

The required FAM driver is also installed when you install the PDZ-1 software.

See 5-4 “Using PDZ-1 Proxy Browsing Software” (page 54) for more information about installing the PDZ-1 software.

Some limitations apply to FAM connections. For details, see 6-2 “File Access Mode File Operations” (page 58).



3-1-3 Connecting to a Nonlinear Editing System

You can send video/audio signals (AV/C data) from this unit to a nonlinear editing system connected to the i.S400 (i.LINK) connector. The following figure shows an example connection.

Notes

- The i.S400 (i.LINK) connector of this unit outputs video/audio signals in DVCAM format. Data recorded in MPEG IMX format is output after being converted into DVCAM format.
- The nonlinear editing system to be used being connected to this unit requires editing software (not supplied) supporting DVCAM format.

- Make the following settings before transferring video/audio signals (AV/C data) from this unit to a nonlinear editing system.

Audio mode selection

Use extended menu item 831 “DV OUT AUDIO MODE” to select either of the following.

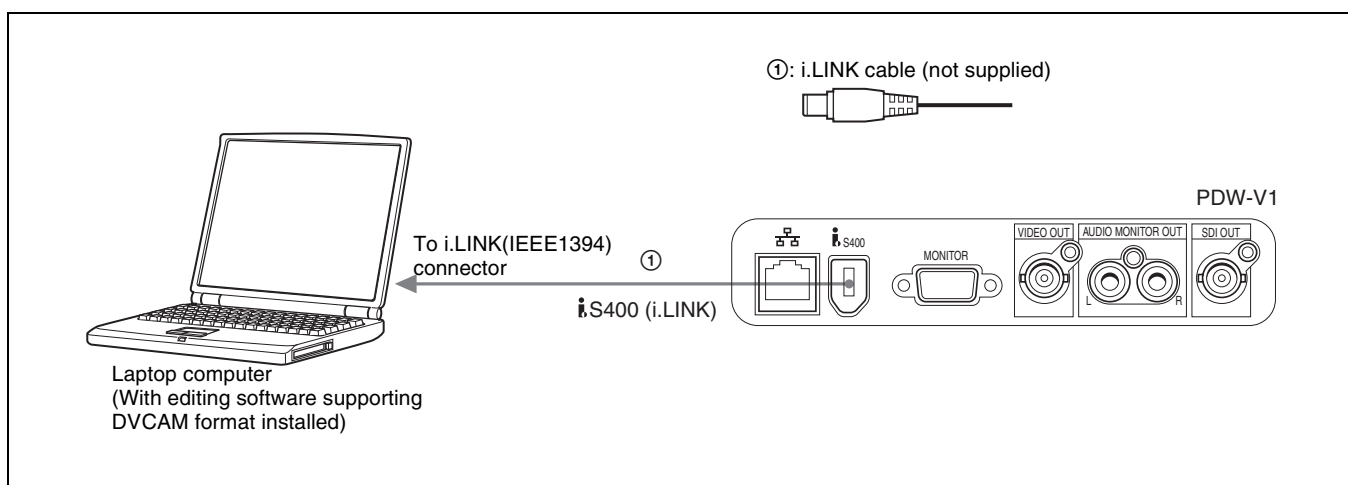
2ch: 48 kHz/16 bits/2 channels (Factory default setting)

4ch: 32 kHz/12 bits/4 channels

Audio output channel selection

Select the audio output channels with extended menu item 828 “SDI/DV AUDIO OUTPUT SELECT.”

For information about how to make extended menu item settings, see 7-3-2 “Extended Menu Operations” on page 75.



For the method of transferring video/audio signals (AV/C data) to a nonlinear editing system, refer to the manual provided with the editing software to be used.

3-2 Power Preparations

This unit can be powered by a battery pack or AC power.

3-2-1 Using AC Power

Connect an AC power source (100 V to 240 V AC, 50/60 Hz) to the AC power inlet connector on the left side of the unit with a power cord (not supplied, *see page 95*).

3-2-2 Using a Battery Pack

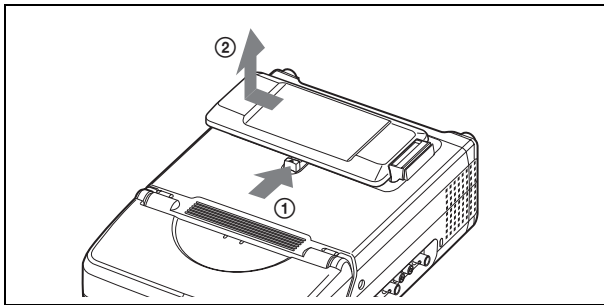
Usable battery packs

The battery packs usable with this unit are as follows.
BP-L60S, BP-GL65, BP-GL95, BP-M100

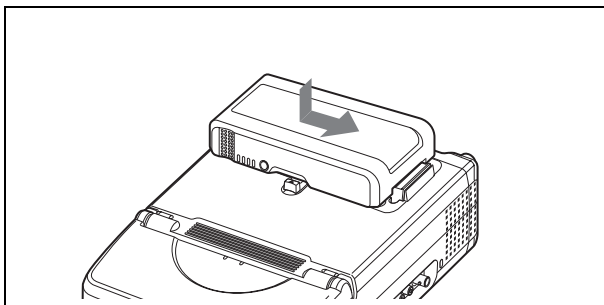
To attach a battery pack

Proceed as follows.

- 1 Remove the cover of the battery pack shoe.



- 2 Fit the battery pack.



To remove the battery pack.

Follow the above procedure in the reverse flow. After the battery pack is removed, replace the cover of the battery pack shoe.

3-3 Setup

The principal setup operations before operating this unit can be carried out using setup menus.

The setup menus of this unit comprise a basic setup menu and an extended setup menu. The contents of these menus are as follows.

Basic setup menu:

- Items relating to the hours meter
- Items relating to operation
- Items relating to menu banks

Extended setup menu:

- Items relating to control panels
- Items relating to the remote control interface
- Items relating to editing operations
- Items relating to preroll
- Items relating to disc protection
- Items relating to the time code reader, metadata, and UMID
- Items relating to video control
- Items relating to audio control
- Items relating to digital processing

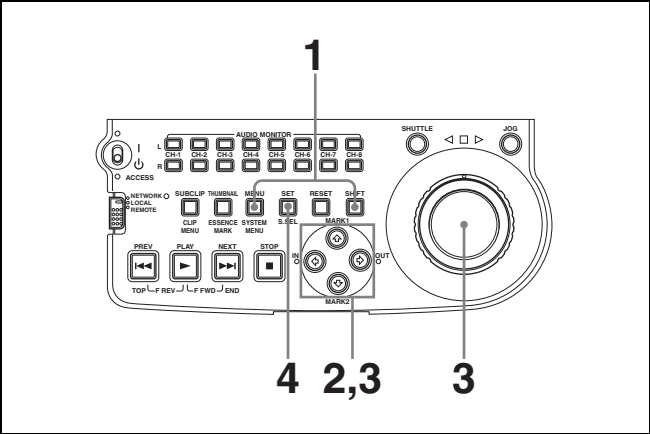
For detailed information about the items, except for the basic menu items relating to the hours meter, of these menus and how to use them, see Chapter 7 “Menus.”
For detailed information about menu operations relating to the hours meter, see 8-1-1 “Digital Hours Meter” (page 86).

This unit allows three different sets of menu settings to be saved in what are termed “menu banks” numbered 1 to 3. Saved sets of menu settings can be recalled for use as required.

For more information about the menu banks, see “Menu bank operations (menu items B01 to B13)” (page 71).

3-4 Setting the Date and Time

When using this unit for the first time, you should set the date and time as follows.



- 1 Holding down the SHIFT button, press the MENU button.
The system menu appears on the monitor screen.
- 2 Select “DATE/TIME PRESET” using the \updownarrow button or $\leftarrow\rightarrow$ button, then press the \rightarrow button.
The date and time setting screen appears on the monitor, allowing you to set the following items.
 - YEAR: Calendar year
 - MONTH: Month
 - DAY: Day
 - TIME: Time
 - TIME ZONE: Time zone (Difference from UTC)
- 3 Set the date, time and time zone.
You can change the setting of the flashing digits.

To change the flashing digits
Use the arrow buttons (\leftarrow , \rightarrow).

To increase or decrease the values of the flashing digits
Use the arrow buttons (\updownarrow , $\leftarrow\rightarrow$) or jog dial.

- 4 Press the SET button.
The date, time and time zone settings are stored.

To return to the previous menu page
Press the MENU button.

To exit the menu
Press the MENU button twice in succession.

3-5 Superimposed Text Information

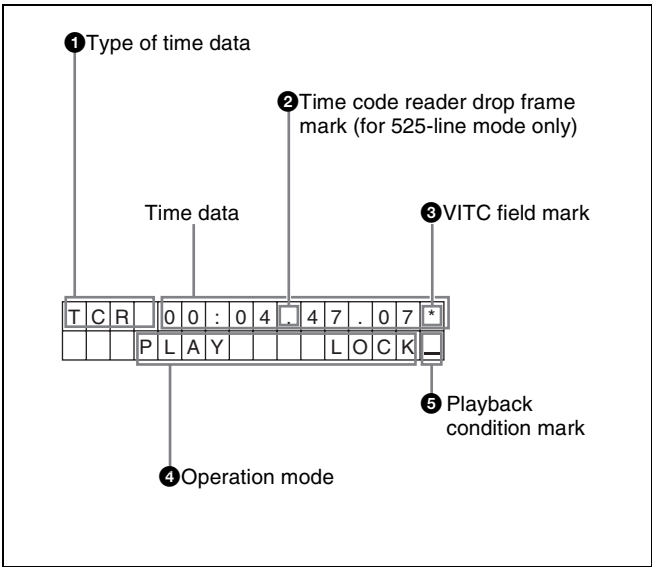
The time code, menu settings, alarm messages, or other text information can be superimposed on the video signal output from the VIDEO OUT connector or SDI OUT connector. The setting as to whether or not to superimpose text information alternates every time you press the CHARACTER button (see page 26).

Adjusting the text display

You can adjust the position, size and type of the superimposed text using basic menu items 002, 003, 005, 009, 011, and 012.

For details, see 7-2-2 “Basic Menu Operations” (page 69).

Information displayed



1 Type of time data

Display	Meaning
CNT	Counter data
TCR	TC reader time code data
UBR	TC reader user bits data
IN	IN point time data
OUT	OUT point time data
DUR	Duration between IN point and OUT point

Note

If the time data or user's bits cannot be read correctly, they will be displayed with an asterisk. For example, "T*R" or "U*R."

2 Time code reader drop frame mark (for 525-line mode only)

"." : Indicates drop frame mode

":" : Indicates non-drop-frame mode

3 VITC field mark

" " (blank) : Odd fields

"*" : Even fields

4 Operation mode

Display		Operation mode
DISC OUT		Disc is not loaded.
LOADING		Disc is being loaded.
UNLOADING		Disc is being unloaded.
STANDBY OFF		Standby off mode
STOP		Stop mode
NEXT		Cuing up to the first frame of the next clip.
PREV		Cuing up to the first frame of the current clip.
F.FWD		Fast forward search
F.REV		Fast reverse search
PLAY		Playback mode (servo unlocked)
PLAY	LOCK	Playback mode (servo locked)
JOG	STILL	A still picture in jog mode
JOG	FWD	Jog mode in forward direction
JOG	REV	Jog mode in reverse direction
SHUTTLE	STILL	A still picture in shuttle mode
SHUTTLE	(Speed)	Shuttle mode
TOP 0001/xxxx		Cuing up to the first frame of the first clip.
END xxxx/xxxx		Cuing up to the last frame of the last clip.
PREROLL		Cuing up during thumbnail search

5 Playback condition mark

One of three channel condition marks is displayed when the ACCESS indicator is lit. The three channel condition marks indicate the following three stages.

Display	Name	Description
—	Green condition	There is no problem with the playback condition. This unit and the disc can be used just as they are. This corresponds to the "green" channel condition indicator of a VTR.

Display	Name	Description
=	Yellow condition	The playback condition has deteriorated to some degree. There are no read errors, but you should take the action described in the next section. This corresponds to the "yellow" channel condition indicator of a VTR.
≡	Red condition	The playback condition has deteriorated. There are no read errors, ^{a)} but you should take the action described in the next section. This corresponds to the "red" channel condition indicator of a VTR.

a) Read errors will occur if the playback condition continues to deteriorate. If a read error occurs, a "Disc Error!" alarm appears in the time data display, the picture freezes, and audio is muted.

To display playback condition marks, set basic menu item 012 "CONDITION DISPLAY ON VIDEO MONITOR" to "ena," and set basic menu item 005 "DISPLAY INFORMATION SELECT" to "T&sta."

For details about operation, see 7-2-2 "Basic Menu Operations" (page 69).

Playback condition displays

You can be alerted in advance to deteriorating playback conditions and to error correction rates which are approaching their limits.

Deteriorating playback may be due to the following causes.

- Scratches and dust on the disc surface
This includes fingerprints, dust from the air, tar from cigarette smoke, and so on.
Scratches and soiling which occur before recording are not a problem because they are registered in advance as defects, and recording avoids them. However, scratches and soiling which occur after recording can lead to deteriorating playback conditions.
- Aging of disc recording layers
Over several decades, the recording layers of optical discs can age and cause deteriorating playback conditions.
You can use this function to check archival discs and other discs which have been stored for extended periods, so that you can take action before the deterioration progresses further.
- Deteriorating laser diodes performance
The performance of the laser diodes used in optical heads can worsen with age, leading to deteriorating playback conditions.
You can use the digital clock to check the total optical output time of optical heads.

For details, see 8-1-1 “Digital Hours Meter” (page 86) about this setting.

Refer to the Maintenance Manual for an approximate guide to when it is time to replace optical heads.

To prevent playback conditions from deteriorating

Pay attention to the following points when handling discs.

- Do not open disc cartridges and touch discs directly with your hands.
- Do not store for long periods in locations which are dusty or exposed to air circulated by fans.
- Do not store for long periods under high temperatures or in locations exposed to direct sunlight.

If playback conditions have deteriorated

If a yellow or red playback condition mark appears, check the following points.

Whether the disc displays the same playback condition on other XDCAM devices: If so, the surface of the disc may be dirty or scratched, or the performance of the recording layers on the disc may have worsened due to age. Do not use discs with these symptoms.

Whether every disc inserted into an XDCAM device displays the same playback conditions: If so, the performance of the laser diodes may have deteriorated. Check the total optical output time.

3-6 Handling Discs

3-6-1 Discs Used for Playback

This unit uses the following disc for playback: PFD23 Professional Disc ¹⁾ (capacity 23.3 GB)

1) Professional Disc is a trademark of Sony Corporation.

Note

It is not possible to use the following discs with this unit:

- Blu-ray Disc
- Professional Disc for Data

3-6-2 Notes on Handling

Handling

The Professional Disc is housed in a cartridge, and is designed to allow handling free of risk from dust or fingerprints. However, if the cartridge is subjected to a severe shock, for example by dropping it, this can result in damage or scratching of the disc. If the disc is scratched, it may be impossible to record video/audio, or to play back the content recorded on the disc. The discs should be handled and stored carefully.

- Do not touch the surface of the disc itself within the cartridge.
- Deliberately opening the shutter may cause damage.
- Do not disassemble the cartridge.
- The supplied adhesive labels are recommended for indexing discs. Apply the label in the correct position.

Storage

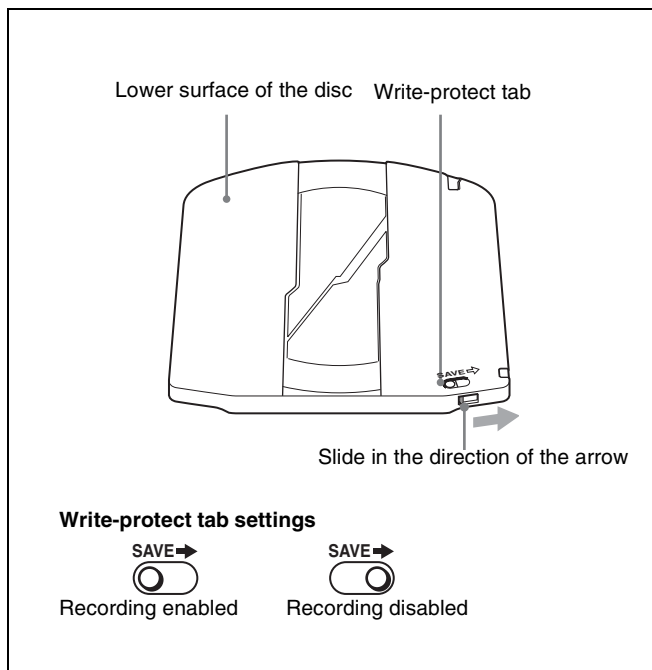
- Do not store discs where they may be subjected to direct sunlight, or in other places where the temperature or humidity is high.
- Do not leave cartridges where dust may be able to gain ingress.
- Store cartridges in their cases.

Care of the discs

- Remove dust and dirt on the outside of a cartridge using a soft dry cloth.
- If condensation forms, allow ample time to dry before use.

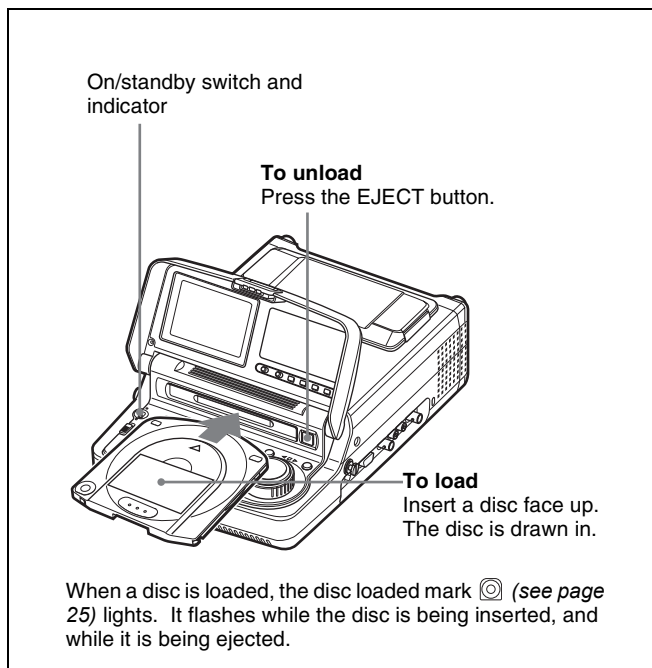
3-6-3 Write-Protecting Discs

To protect the content recorded on the disc from accidental erasure, move the write-protect tab on the lower surface of the disc in the direction of the arrow, as shown in the following figure.



3-6-4 Loading and Unloading a Disc

When the on/standby switch indicator is lit green, you can load and unload a disc as shown in the following figure.



If message “HUMIDI!” appears in the time data display

There is moisture condensation in the unit.

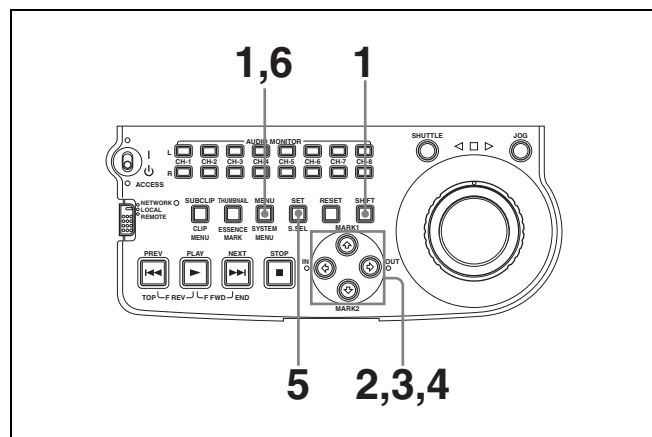
For the steps to take when the message appears, see 8-4 “Condensation” on page 93.

3-6-5 Formatting a Disc

An unused disc requires no formatting operation. The disc is automatically formatted when loaded into this unit. To format a recorded disc, load the disc into the unit, then do as follows.

Note

When a recorded disc is formatted, all the data on the disc is erased.



- 1 Holding down the SHIFT button, press the MENU button.

The system menu appears on the monitor screen.

- 2 Select “DISC MENU” using the \uparrow button or \downarrow button, then press the \rightarrow button.

The menu item “FORMAT” is displayed.

- 3 Select “FORMAT” using the \uparrow button or \downarrow button, then press the \rightarrow button.

The menu item “QUICK FORMAT” is selected.

- 4 Press the \rightarrow button.

The message “QUICK FORMAT OK?” appears.

To return to the previous menu page without formatting the disc

Press the RESET button.

- 5 Press the SET button.

Formatting is completed and the message “FORMAT COMPLETED.” appears.

- 6 Press the MENU button.

This exits the menu.

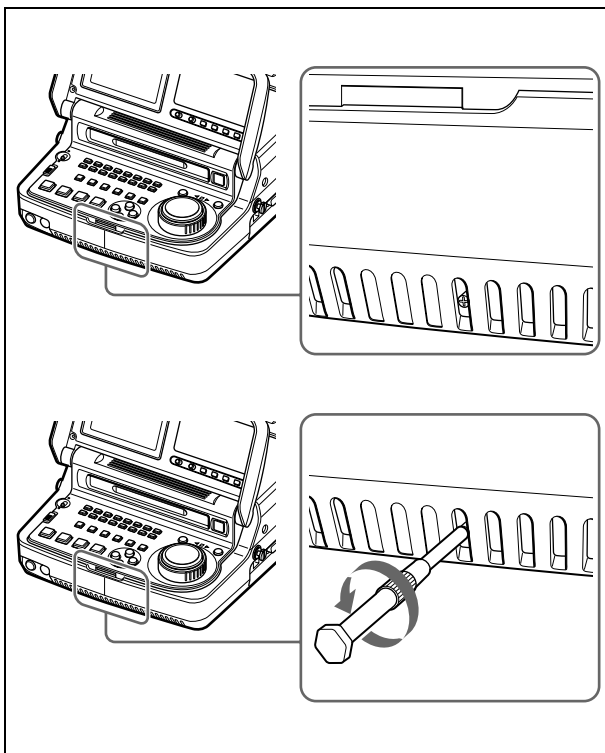
3-6-6 To Eject Discs With the Unit Powered Off

When battery power is low and at other times, it may not be possible to eject discs by pressing the EJECT button. In these situations, you can use the following as an emergency procedure to eject a disc manually.

- 1 Power the unit off.
- 2 Insert a Phillips screwdriver into the slit, as shown in the following illustration, and rotate the red screw in the counterclockwise direction.

Note

Use a screwdriver that fits into the slit. The width of the slit is approximately 2.5 mm.



The disc is ejected.

After removing the disc, you do not need to return the screw to its original position. Normal operation will resume when the unit is powered on again.

3-6-7 Using the Salvage Function

When XDCAM recording does not end normally, the file system is not updated, video and audio data recorded in real time is not recognized as files, and clip contents recorded up to that point are lost.

However, this unit has a salvage function which can hold losses to the minimum by reconstructing clips on such discs.

Notes

- This function salvages as much recorded material as possible after an unforeseen accident, but 100% restoration cannot be guaranteed.
- Even when this function is used, it is not possible to recover data from immediately before the interruption of recording. (From 4 to 6 seconds of data before the interruption of recording are lost.)

Full salvage

When a disc that was manually ejected from a device subjected to a recording interruption due to power off is loaded into this unit, clips are reconstructed on the basis of markers recorded on the disc. Processing time is about 30 seconds, although it depends on the state of the disc. Proceed as follows to perform a full salvage.

- 1 Insert the disc on which recording did not end normally.

The message “Salvage ?” appears.

- 2 Do one of the following.

To salvage

Press the SET button.

Processing begins and the message “Executing.” appears.

Notes

- If a write protected disc is loaded, the message “EJECT?” appears. Eject the disc, set the write-protect tab to the recording enable position, and insert the disc again.
- This operation cannot be cancelled once it begins.

A message appears to display the results when processing finishes. If the message reads “Incomplete!,” the clips that failed were lost.

To exit without salvaging

Press the RESET button.

The state of section where recording was interrupted is saved, but no salvage processing is done.

Sections which were recorded normally can be played back, but no new recording can be done on the disc. (A quick format can be done on the disc, although all of its contents will be lost.)

Note

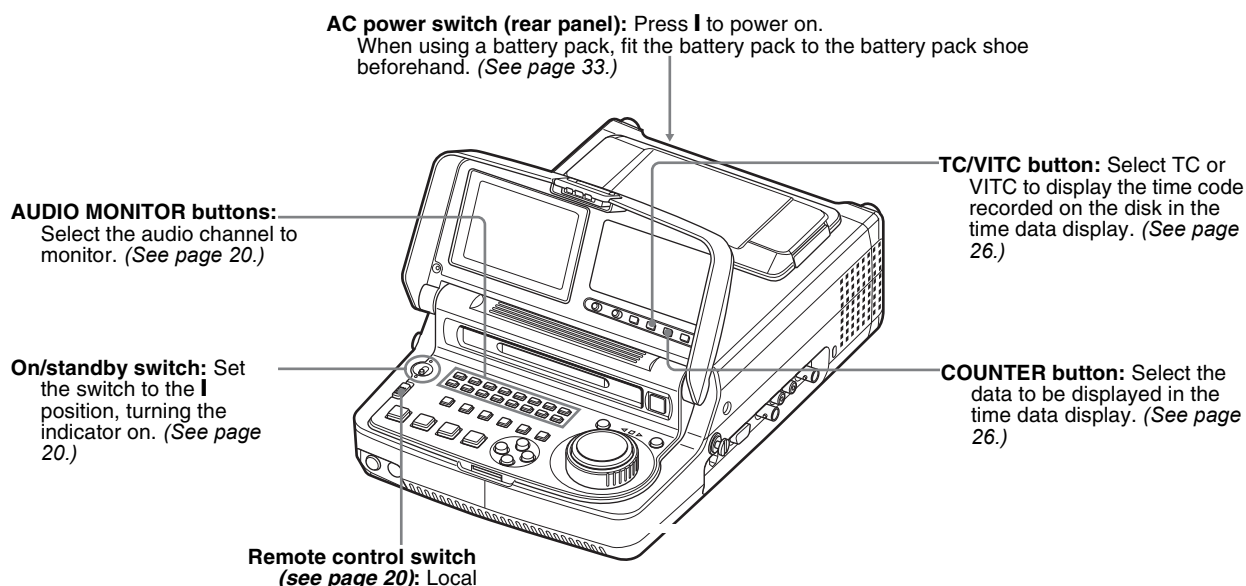
Unless clips are salvaged, the message “Salvage ?” appears again the next time the disc is inserted or the unit is powered on.

4-1 Preparations for Playback

Button/Switch Settings

Before beginning playback, make any necessary button/switch settings.

For details of the settings of the buttons/switches, see the pages indicated in parenthesis.



4-2 Playback Operation

Disc playback start position

Although this unit uses optical discs, it is designed to offer the most convenient features of tape playback by VTRs. One of these is the playback start position, which works in the same way as tape, as described below.

After playback stop

The unit stops at the position where the STOP button was pressed.

Press the PLAY button to resume playback at the stop position.

After disc insertion

The unit stops at the position of the disc when it was most recently ejected.

Press the PLAY button to resume playback at the most recent position.

The playback position is saved to the disc when the disc is ejected, which allows playback to start at that position whenever it is loaded into any XDCAM player.

Note

This function is not available when the write-protect tab of the disc is set to the recording disabled position.

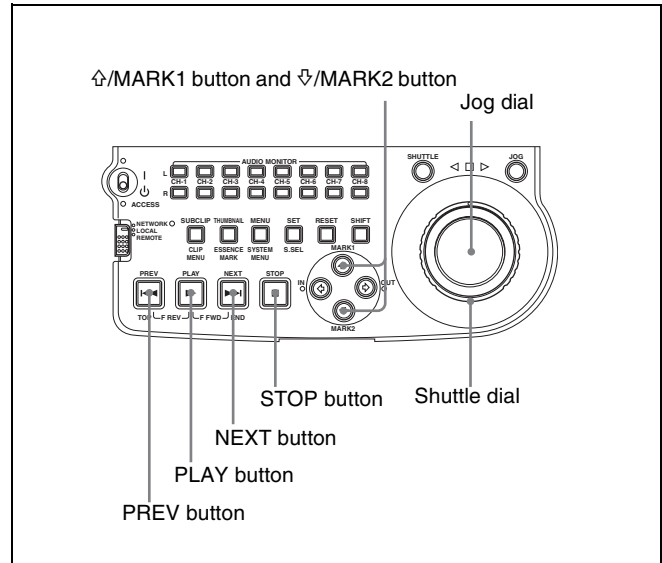
This section describes the following types of playback:

- Normal playback
Playback at normal (± 1) speed
- Playback in jog mode
Variable speed playback, with the speed determined by the speed of turning the jog dial
- Playback in shuttle mode
Variable speed playback, with the speed determined by the angular position of the shuttle dial

Normal playback

First insert a disc.

For details of how to insert a disc, see 3-6-4 “Loading and Unloading a Disc” on page 37.



To start playback

Press the PLAY button.

Playback starts.

When two or more clips are recorded on the disc, they are played back continuously.

Note

No audio is output when non-audio signals are played back.

To jump to the next or previous clip, then start playback

Use the PREV button, NEXT button, jog dial, or shuttle dial.

For information about the functions of these buttons, see “4 Playback controls” on page 22.

For details of the jog and shuttle dials, see “1 Jog/shuttle control block” on page 21.

To stop playback

Press the STOP button.

If you play back to the end of the last clip

Playback automatically stops.

If, in this state, you press the PLAY button, the message “ALARM DISC END.” appears on the monitor.

To carry out playback again, move back to the desired clip using the PREV button, jog dial or shuttle dial.

To record an essence mark

While playing back a disc, you can record essence marks such as shot mark 1 and shot mark 2 in desired frames.

To record a shot mark 1 or shot mark 2, hold down the ∇ /MARK1 or ∇ /MARK2 button and press the SET button.

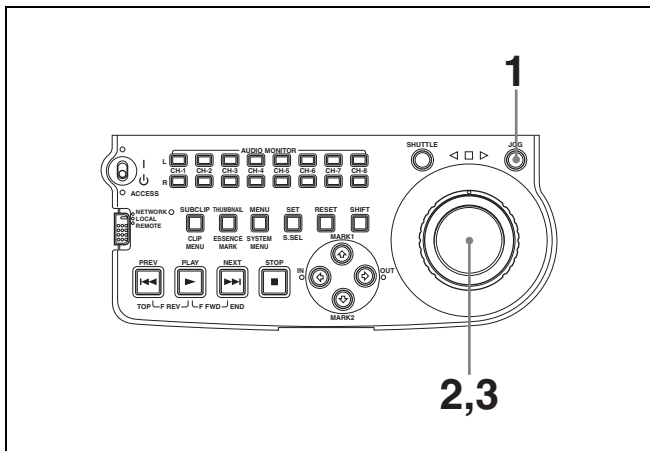
Note

To erase or change essence marks, use the supplied PDZ-1 Proxy Browsing Software.

Playback in jog mode

In jog mode, you can control the speed of playback by the speed of turning the jog dial. The playback speed range is ± 1 times normal speed.

To carry out playback in jog mode, do as follows.



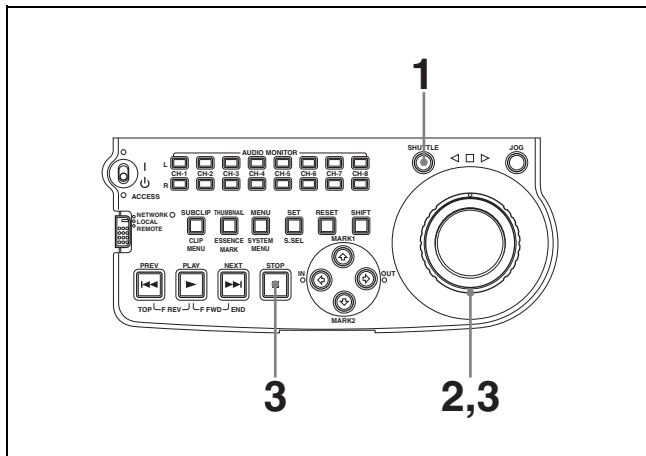
- 1 Press the JOG button, turning it on.
- 2 Turn the jog dial in the desired direction, at the speed corresponding to the desired playback speed.
Playback in jog mode starts.
- 3 To stop playback in jog mode, stop turning the jog dial.

When extended menu item 101 “SELECTION FOR SEARCH DIAL ENABLE” is set to “dial” (factory default setting), just turning the jog dial with the JOG button off starts playback in jog mode.

Playback in shuttle mode

In shuttle mode, you can control the speed of playback by the angular position of the shuttle dial. The range of playback speed is ± 20 times normal speed.

To carry out playback in shuttle mode, do as follows.



- 1 Press the SHUTTLE button, turning it on.
- 2 Turn the shuttle dial to the desired angle corresponding to the desired playback speed.
Playback in shuttle mode starts.
- 3 To stop playback in shuttle mode, return the shuttle dial to the center position, or press the STOP button.

When extended menu item 101 “SELECTION FOR SEARCH DIAL ENABLE” is set to “dial” (factory default setting), just turning the shuttle dial with the SHUTTLE button off starts playback in shuttle mode.

To alternate between normal-speed playback and shuttle mode playback

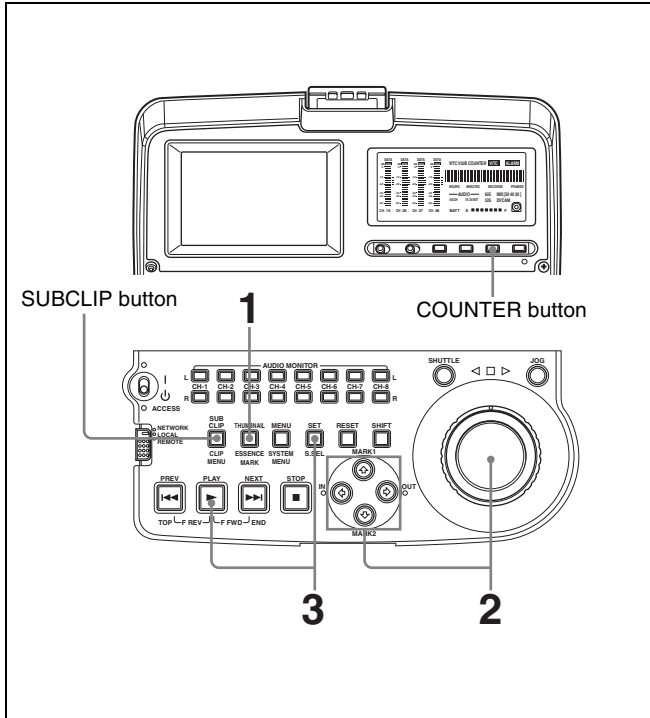
Set the shuttle dial to the position corresponding to the desired shuttle playback speed, then switch between normal-speed playback and shuttle playback by pressing the PLAY and SHUTTLE buttons alternately.

For intermittent shuttle mode playback, press the STOP and SHUTTLE buttons alternately.

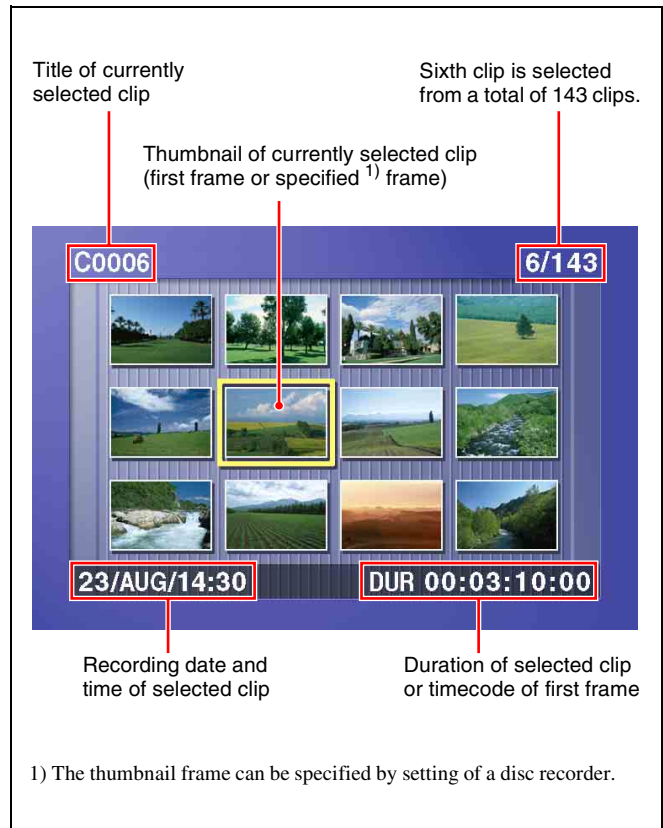
4-3 Thumbnail Search

4-3-1 Cuing Up a Desired Clip

To display the thumbnail images of all clips on the disc, and cue up a desired clip, proceed as follows.



- 1 With the SUBCLIP button off, press the THUMBNAIL button, turning it on.
The thumbnails of all clips on the disc appear.



To switch between duration and timecode display in the thumbnail display

Press the COUNTER button. Each press of the button toggles between duration display and timecode display.

To escape from the thumbnail display to the full-screen display

Press the THUMBNAIL button, turning it off.

- 2 Use the arrow buttons or the jog dial to select the desired clip.

You can select clips with the following operations.

Press the PREV or NEXT button: Move to the previous or next clip.

Press the PREV or NEXT button with the SHIFT button held down: Move to the first or last clip.

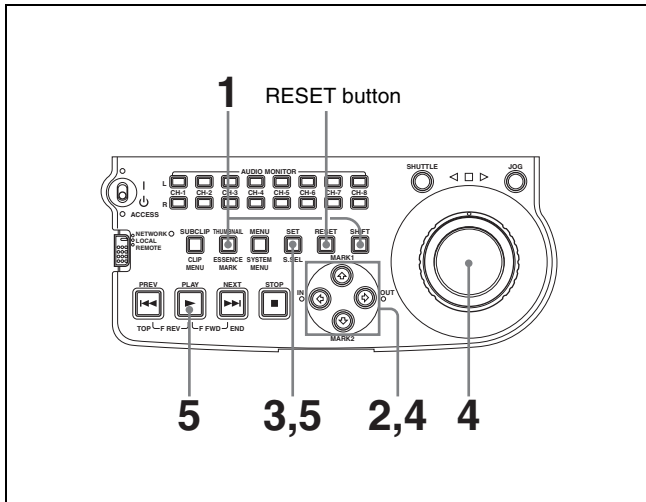
Press the ⬅ or ➡ button with the SHIFT button held down: Switch to the previous or next page.

- 3 To cue up the selected clip, press the SET button.

To start playback from the selected clip, press the PLAY button.

4-3-2 Cuing Up a Frame Including an Essence Mark

Proceed as follows.



- 1 Hold down the **SHIFT** button, and press the **THUMBAIL** button, turning it on.

The essence mark selection screen appears.



To escape from the essence mark selection screen to the previous screen

Press the **RESET** button.

- 2 Use the arrow buttons to select the desired essence mark.

You can select essence marks with the following operations.

Press the PREV or NEXT button: Move to the previous or next essence mark.

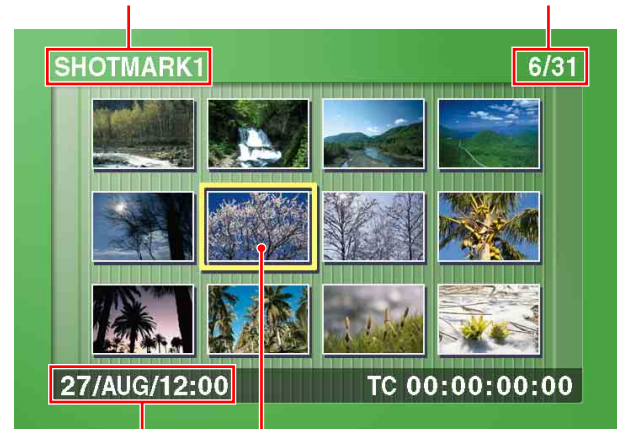
- 3 Press the **SET** button.

Thumbnails of the frames including the selected essence mark appear.

(The example shows the case where SHOT MARK1 is selected as the essence mark.)

This indicates that the thumbnail images are the frames including the essence mark (SHOTMARK1).

Sixth frame is selected from a total of 31 SHOTMARK1 frames



Currently selected SHOTMARK1 frame

Date and time of recording of the clip containing the selected frame

- 4 Use the arrow buttons or jog dial to select the desired frame.

You can select frames with the following operations.

Press the PREV or NEXT button: Move to the previous or next frame.

Press the PREV or NEXT button with the SHIFT button held down: Move to the first or last frame.

Press the ◀ or ▶ button with the SHIFT button held down: Switch to the previous or next page.

- 5 Press the **SET** button to cue up the selected clip.

To start playback from the selected frame, press the **PLAY** button.

4-4 Clip List Playback

You can play back clips in the order of clip lists created with the scene selection function (see page 45).

4-4-1 Playing Back in Clip List Order

Proceed as follows.

- 1 If the clip list that you want to play exists on the disc, load it into the current clip list.

About the current clip list, see page 45.

For the clip list loading operation, see 5-3-3 “Loading a Clip List From Disc Into the Current Clip List” (page 52).

- 2 Press the SUBCLIP button, turning it on.

- 3 Press the PLAY button.

Playback begins from the first sub clip in the current clip list.

Note

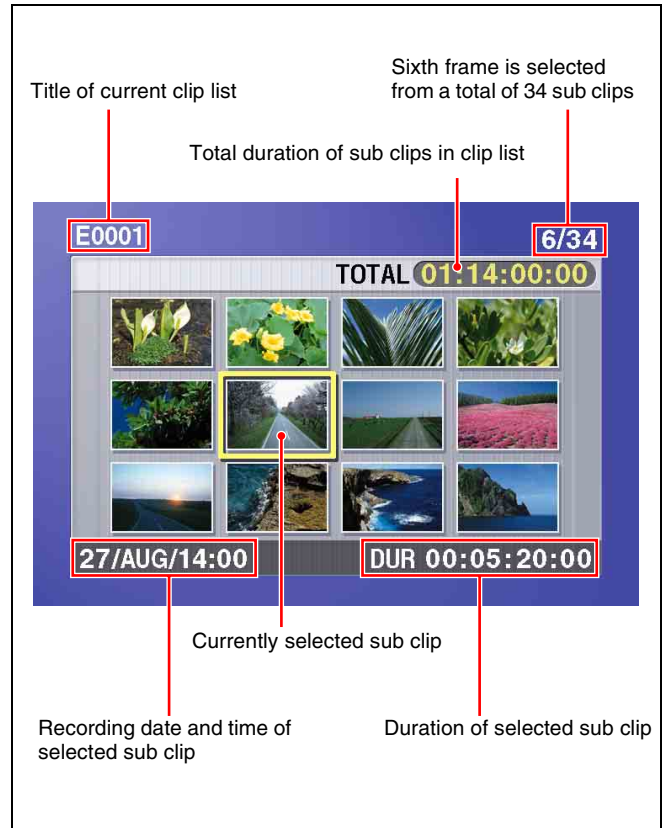
Depending on the length of sub clips in the clip list and their arrangement on the disc, playback may freeze momentarily between sub clips.

4-4-2 Cuing Up With Sub Clip Thumbnails

With the desired clip list loaded in the current clip list, proceed as follows.

- 1 Press the SUBCLIP button and the THUMBNAIL button, turning them on.

Thumbnails of the first frames in the sub clips appear.



To escape from the thumbnail display to the full-screen display

Press the THUMBNAIL button, turning it off.

- 2 Use the arrow buttons or the jog dial to select the sub clip you want to cue up.

You can select sub clips with the following operations.

Press the PREV or NEXT button: Move to the previous or next sub clip.

Press the PREV or NEXT button with the SHIFT button held down: Move to the first or last sub clip.

Press the ⬅ or ➡ button with the SHIFT button held down: Switch to the previous or next page.

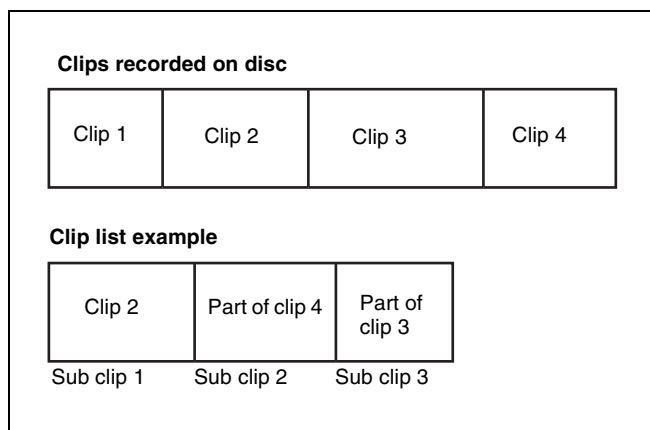
- 3 To cue up the selected sub clip, press the SET button.

To start playback from the selected sub clip, press the PLAY button.

5-1 Overview

Clip lists and sub clips

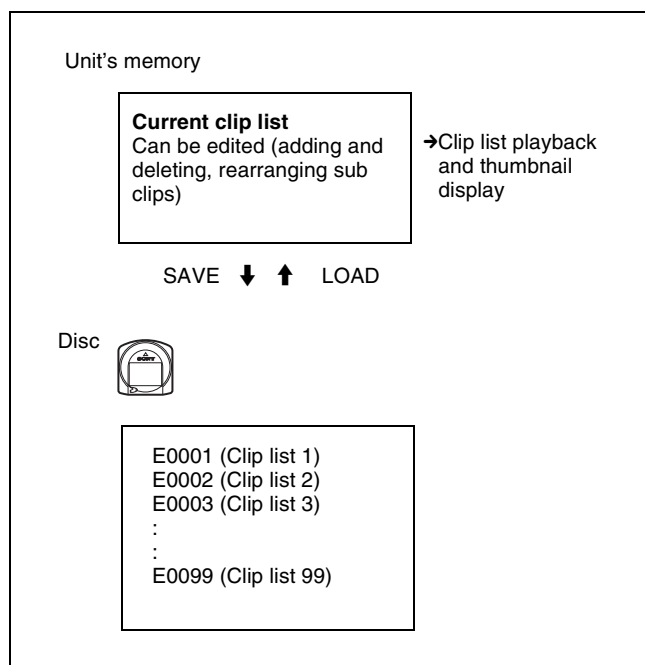
Scene selection is a function which allows you to save, load, and edit clip lists consisting of clips recorded on disc, or parts of clips, arranged in any order. Clips or parts of clips which have been inserted into clip lists are called sub clips.



Clip lists on disc and the current clip list

Up to 99 clip lists can be saved on disc. These clip lists can be loaded, one at a time, into the unit's memory for playback and editing. Newly created clip lists are also saved in the unit's memory.

This manual refers to the clip list which is currently loaded into the unit's memory as the "current clip list."



The current clip list is always the target of sub clip creation and editing.

Notes

- Data in the unit's memory is lost when a disc is ejected or the unit is powered off. After creating or editing the current clip list, be sure to save it to disc.
- The current clip list cannot be saved to disc when the disc's write-protect tab is set to the recording disabled position.

5-2 Basic Operations

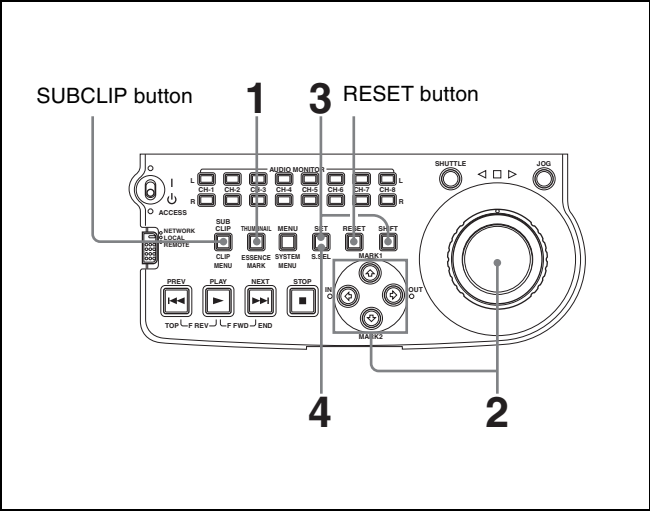
5-2-1 Creating Clip Lists

- You can create a clip list by either of the following two methods.
- Selecting a desired clip from the thumbnail display, and including it in the clip list as a sub clip.
 - Creating any sub clip from a full-screen display clip, and including it in the clip list.

Note
Up to 99 clip lists can be handled in the CLIP menu.

Including a clip selected from the thumbnail display in the clip list

To select the desired clip from the clip thumbnail display and include it in the clip list, proceed as follows.



- 1 With the SUBCLIP button off, press the THUMBNAIL button, turning it on.
The thumbnails of the clips on the disc appear.



- 2 Use the arrow buttons or the jog dial to select the clip you want to include in the clip list.

You can select clips with the following operations.
Press the PREV or NEXT button: Move to the previous or next clip.
Press the PREV or NEXT button with the SHIFT button held down: Move to the first or last clip.
Press the ⬅ or ➡ button with the SHIFT button held down: Switch to the previous or next page.
- 3 Hold down the SHIFT button, and press the SET button.

The scene selection window appears.

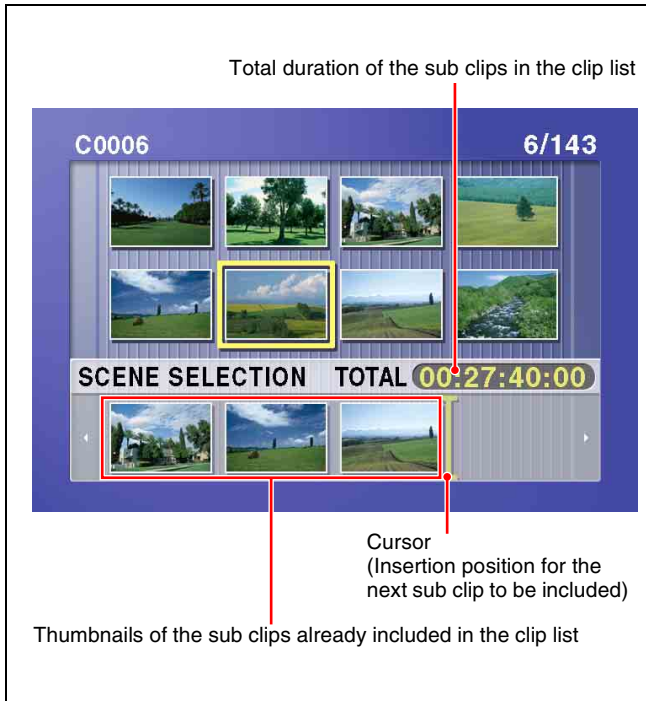


To escape from the scene selection window to the previous screen
Press the RESET button.

- 4 Press the SET button.

This adds the selected clip to the clip list as a sub clip. At the same time, this closes the scene selection window and returns to the original thumbnail display.
- 5 Repeat steps 2 to 4 until all desired clips have been added to the clip list.

The scene selection window shows the thumbnails of the sub clips that have already been included in the clip list. The cursor within the window indicates the position in which the next sub clip will be included.



To move the cursor within the scene selection window

When the scene selection window appears as you carry out step **3**, use the left and right arrow buttons to move in the desired direction.

- 6** When you have added all of the desired clips, save the current clip list to disc.

For details, see 5-3-2 "Saving the Current Clip List to Disc" (page 51).

Note

Unless the current clip list has been saved to disc, its contents will be lost when a disc is ejected or the unit is powered off. After creating a clip list, be sure to save it.

Creating a sub clip from a full-screen display clip, and including it in the clip list (Quick scene selection)

To create any sub clip from a full-screen display clip, and include it in the clip list, proceed as follows.

- 1** With the SUBCLIP button off, and the clip shown in the full-screen display, carry out playback and search to find the point you want to be the IN point of the sub clip.
- 2** At the point you want to be the IN point of the sub clip, hold down the ⇐/IN button and press the SET button.

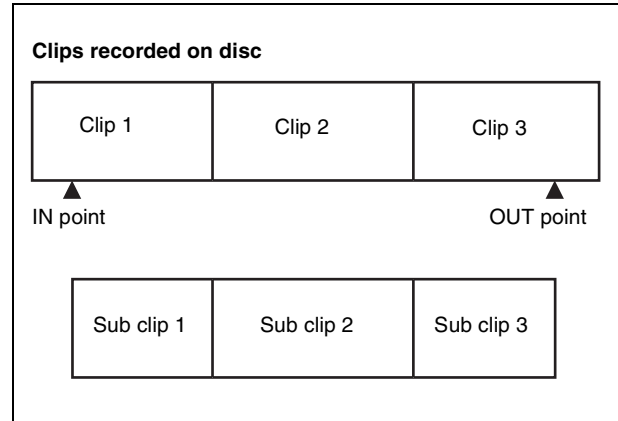
This sets the IN point, and the IN indicator lights.

- 3** In the same way, find the point you want to be the OUT point of the sub clip, hold down the ⇒/OUT button and press the SET button.

This sets the OUT point, and the OUT indicator lights.

When you set IN and OUT points across several clips

The number of sub clips created equals the number of clips from the IN point to the OUT point. (See following figure.)



To check the duration

Press the ⇐/IN button and ⇒/OUT button together. The duration appears on the screen.

To reset the IN point or OUT point, hold down the ⇐/IN button or the ⇒/OUT button and press the RESET button.

- 4** Hold down the SHIFT button, and press the SET button.

This adds the segment from the IN point to the OUT point to the end of the clip list as a sub clip.

- 5** Repeat steps **1** to **4** until all required sub clips have been created and added to the clip list.

To preview a clip list while it is being created

Press the SUBCLIP button, turning it on, and then press the PLAY button.

Playback begins from the first sub clip.

- 6** Save the current clip list to disc.

For details, see 5-3-2 "Saving the Current Clip List to Disc" (page 51).

Note

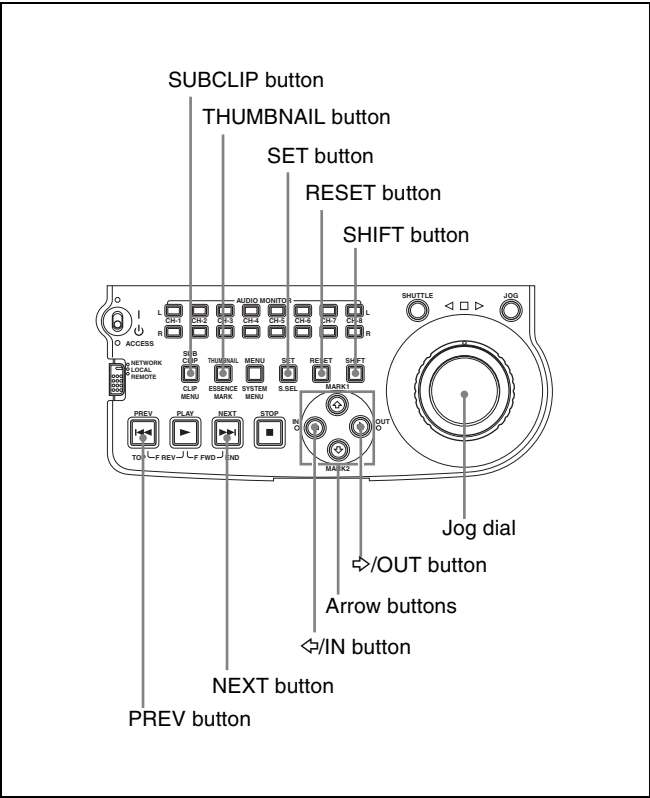
Unless the current clip list has been saved to disc, its contents will be lost when a disc is ejected or the unit is powered off. After creating a clip list, be sure to save it.

5-2-2 Editing Clip Lists

You can carry out the following operations on sub clips within a clip list.

- Moving sub clips (changing the sequence)
- Trimming sub clips
- Deleting sub clips

For details of how to add sub clips, see the procedure in 5-2-1 “Creating Clip Lists” (page 46).

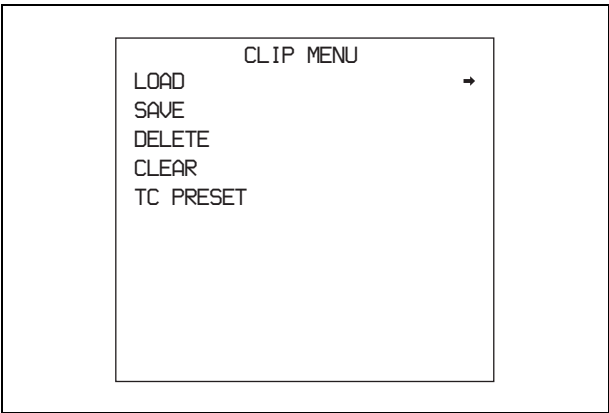


Loading a clip list to edit from disc

Proceed as follows.

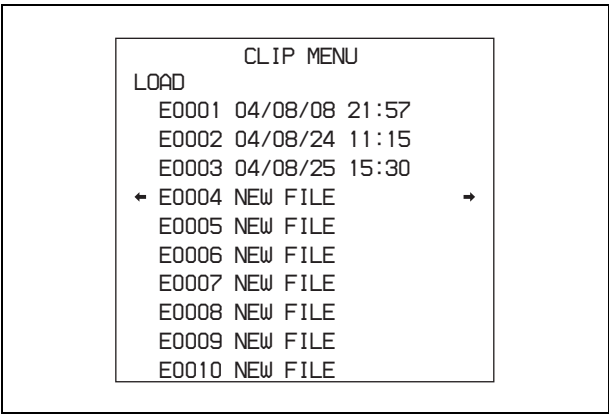
- 1 With the THUMBNAIL button off, hold down the SHIFT button, and press the SUBCLIP button.

The CLIP menu appears.



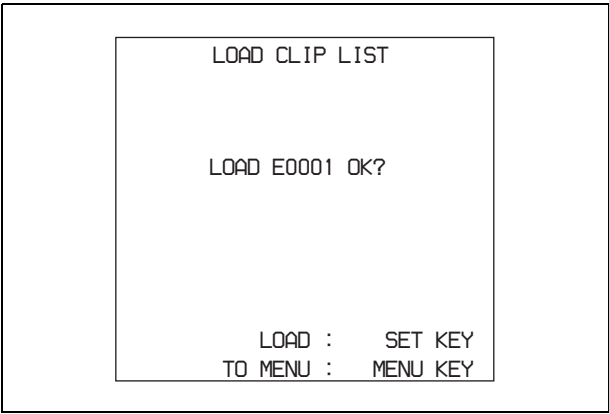
- 2 Use the up arrow button to move the cursor to LOAD, and press the right arrow button.

A list of the clip lists on the disc appears.



- 3 Use the up and down arrow buttons or the jog dial to select the desired clip list (except for NEW FILE), and press the right arrow button.

A confirmation message like the one shown below appears.



- 4 Press the SET button.

The selected clip list is loaded into the current clip list.

Moving a sub clip

Proceed as follows.

- 1 Press the SUBCLIP button, turning it on.
- 2 Press the THUMBNAIL button, turning it on.

Thumbnails of the sub clips within the current clip list appear.



To escape from the thumbnail display to the full-screen display

Press the THUMBNAIL button, turning it off.

- 3 Use the arrow buttons or jog dial to select the desired sub clip.

You can select sub clips with the following operations.

Press the PREV or NEXT button: Move to the previous or next sub clip.

Press the PREV or NEXT button with the SHIFT button held down: Move to the first or last sub clip.

Press the \updownarrow or $\leftarrow\rightarrow$ button with the SHIFT button held down: Switch to the previous or next page.

- 4 Hold down the SHIFT button, and press the SET button.

The sub clip operation menu appears.



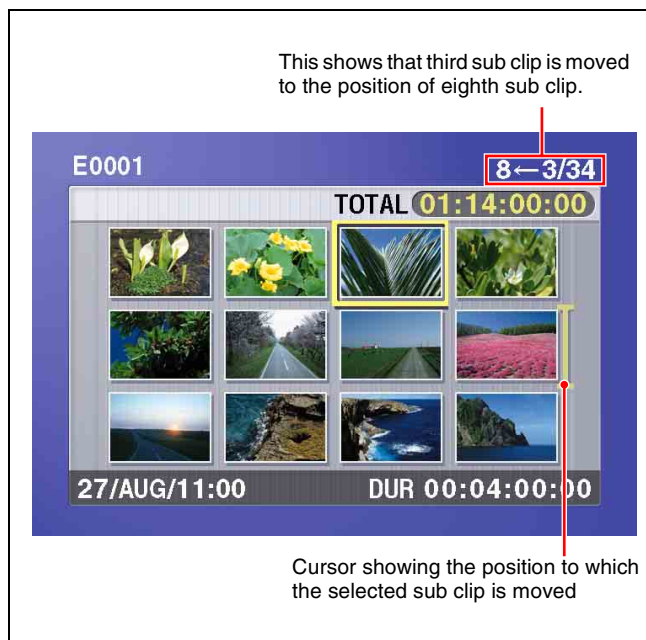
To return to the thumbnail display without moving the sub clip

Do either of the following.

- Use the arrow buttons to select EXIT, and press the SET button.
- Press the RESET button.

- 5 Use the arrow buttons to select MOVE, and press the SET button.

The sub clip movement screen appears. The sub clip selected in step 3 appears surrounded by a frame.



To escape from the sub clip movement screen to the previous screen

Press the RESET button.

- 6 Use the arrow buttons or the jog dial to move the cursor to the position where you want to move the selected sub clip.

Note

You can press the THUMBNAIL button to return to full-screen sub clip display, without moving a sub clip.

- 7 Press the SET button.

The sub clip thumbnail display appears, and you can check the new position of the sub clip.

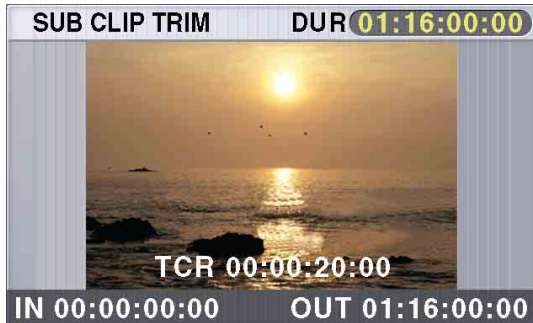


Trimming a sub clip

Proceed as follows.

- 1 Carry out steps 1 to 4 in the procedure, “Moving a sub clip” above.
- 2 Use the arrow buttons to select TRIM, and press the SET button.

The first frame of the selected sub clip appears in a full-screen display. In this state, you can carry out playback and search within the clip including the selected sub clip.



To cancel the trim and escape from the sub clip trim screen

Hold down the SHIFT button and press the SET button.

- 3 Carry out playback and search to find the new location of the IN point or OUT point of the selected sub clip.
- 4 At the point where you want to set the new IN point or OUT point, hold down the ⇐/IN button (when changing the IN point) or the ⇐/OUT button (when changing the OUT point), and press the SET button.

Depending on which button you pressed, this sets the IN point or OUT point, and the IN indicator or OUT indicator lights.

To change both the IN point and the OUT point, repeat steps 3 and 4.

To reset the IN point or OUT point, hold down the ⇐/IN button or the ⇐/OUT button and press the RESET button.

The IN point and the OUT point return to the state before the sub clip trimming screen was displayed.

To cue up the IN point or OUT point, hold down the ⇐/IN button or the ⇐/OUT button and press the PREV or NEXT button.

Note

You can press the THUMBNAIL button to return to full-screen sub clip display, without trimming a sub clip.

- 5 When the new IN and/or OUT points are set, hold down the SHIFT button and press the SET button.

This carries out the trimming, and the screen returns to the sub clip thumbnail display.



To cancel the trim operation

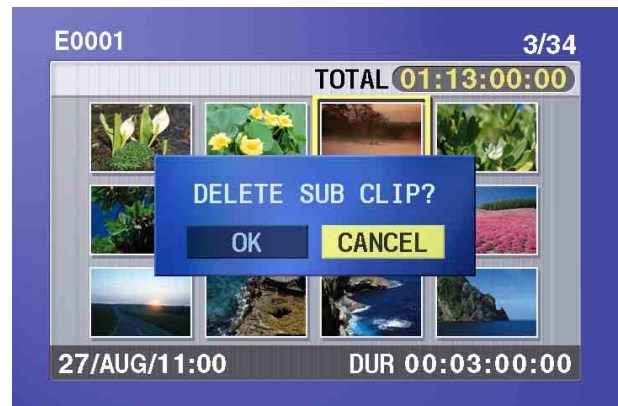
Reset the IN point and the OUT point to return to the state before the sub clip trimming screen was displayed, then hold down the SHIFT button and press the SET button.

Deleting a sub clip

Proceed as follows.

- 1 Carry out steps 1 to 4 in the procedure, “Moving a sub clip” (page 48)
- 2 Use the arrow buttons to select DELETE, and press the SET button.

The sub clip deletion screen appears.



To cancel the deletion, and escape from the sub clip deletion screen

Do either of the following.

- Use the left or right arrow button to select CANCEL, and press the SET button.
- Press the RESET button.

The screen returns to the sub clip thumbnail display.

- 3 Use the left or right arrow button to select OK, and press the SET button.

This deletes the sub clip, and the screen returns to the sub clip thumbnail display.



Saving edited clip lists to disc

The operations described above (moving, trimming, and deleting sub clips) are carried out on the current clip list. Execute the procedure in 5-3-2 “*Saving the Current Clip List to Disc*” (page 51) to save the current clip list to disc again as a clip list.

Note

Unless the current clip list has been saved to disc, its contents will be lost when a disc is ejected or the unit is powered off. After creating a clip list, be sure to save it.

5-3 Clip List Operations

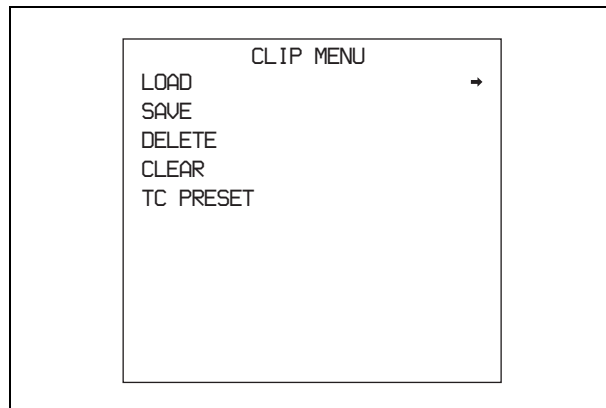
5-3-1 Displaying the CLIP Menu

Proceed as follows.

Notes

- The CLIP menu can handle up to 99 clip lists.
- Do this operation in stop mode.

With the THUMBNAIL button off, hold down the SHIFT button and press the SUBCLIP button. The CLIP menu appears.



Use this menu to carry out the following operations.

- Save the current clip list to disc.
- Load a clip list on disc into the current clip list.
- Delete a clip list from disc.
- Clear the current clip list.
- Set the start timecode of the current clip list.

5-3-2 Saving the Current Clip List to Disc

Proceed as follows.

- 1 In the CLIP menu, use the up and down arrow buttons to move the cursor to SAVE and press the right arrow button.

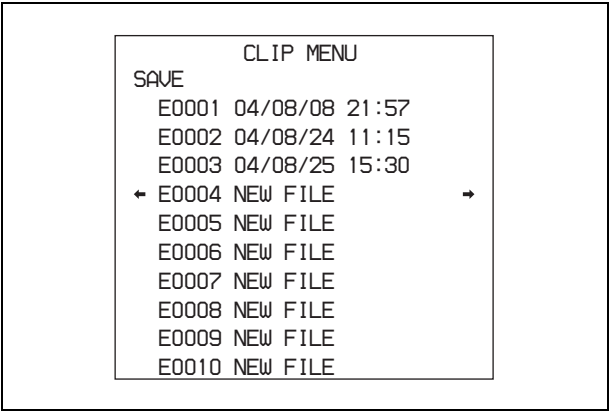
A list of clip lists appears.

“NEW FILE” is shown for lists which do not exist on the disc, having names only.

The date of creation or the title of each clip list is shown in the list of clip lists. (The date of creation is always shown for clip lists without titles.)

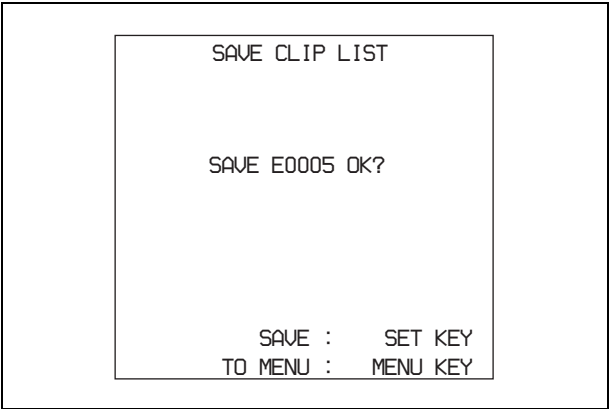
To switch between the date and the title

Hold down the SHIFT button and press the SET button.



- 2 Use the up and down arrow buttons or the jog dial to select the desired clip list, and press the right arrow button.

A confirmation message like the one shown below appears.



- 3 Press the SET button.

The current clip list is saved to disc.

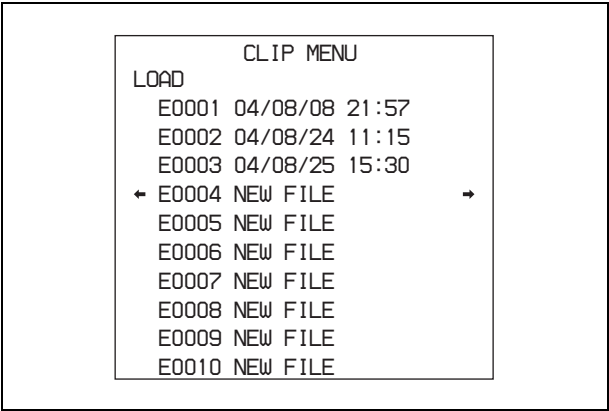
5-3-3 Loading a Clip List From Disc Into the Current Clip List

Proceed as follows.

- 1 In the CLIP menu, use the up arrow button to move the cursor to LOAD and press the right arrow button.

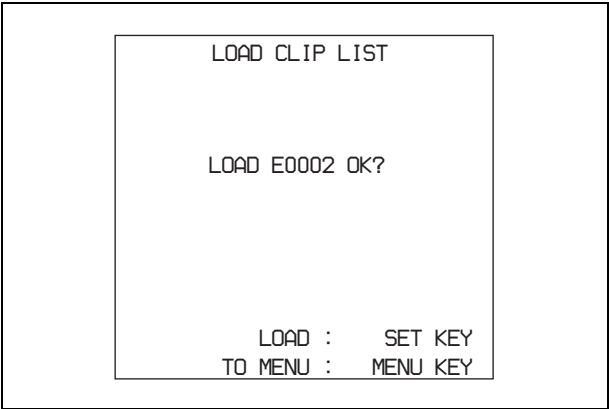
A list of clip lists appears.
The date of creation or the title of each clip list is shown in the list of clip lists. (The date of creation is always shown for clip lists without titles.)

To switch between the date and the title
Hold down the SHIFT button and press the SET button.



- 2 Use the up and down arrow buttons or the jog dial to select the desired clip list, and press the right arrow button.

A confirmation message like the one shown below appears.



- 3 Press the SET button.

The selected clip list is loaded into the current clip list.

If you load a new clip list when the current clip list is not saved to disc

The following warning message appears.
“CLIP LIST IS NOT SAVED. OVERWRITE CLIP LIST?”

Press the SET button to overwrite the current clip list, or the MENU button to return without overwriting it.

- 4 To check the contents of the loaded clip list, press the SUBCLIP button and the THUMBNAIL button, turning them on.

Thumbnails of the sub clips in the clip list appear.

5-3-4 Deleting Clip Lists From Disc

Proceed as follows.

- 1 In the CLIP menu, use the up and down arrow buttons to move the cursor to DELETE and press the right arrow button.

A list of clip lists appears.

The date of creation or the title of each clip list is shown in the list of clip lists. (The date of creation is always shown for clip lists without titles.)

To switch between the date and the title

Hold down the SHIFT button and press the SET button.

- 2 Use the up and down arrow buttons or the jog dial to select the name of the clip list to delete and press the right arrow button.

A confirmation message like the one shown below appears.



- 3 Press the SET button.

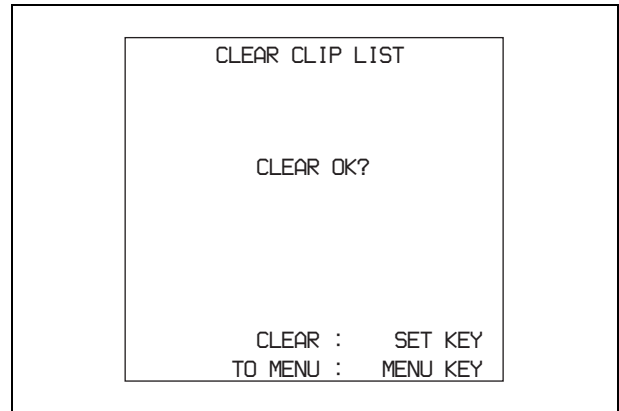
The selected clip list is deleted from the disc.

5-3-5 Clearing the Current Clip List

Proceed as follows to clear the current clip list, leaving it with no clip list loaded.

- 1 In the CLIP menu, use the up and down arrow buttons to move the cursor to CLEAR and press the right arrow button.

A message like the following appears.



- 2 Press the SET button.

The current clip list is cleared, leaving it with no clip list loaded.

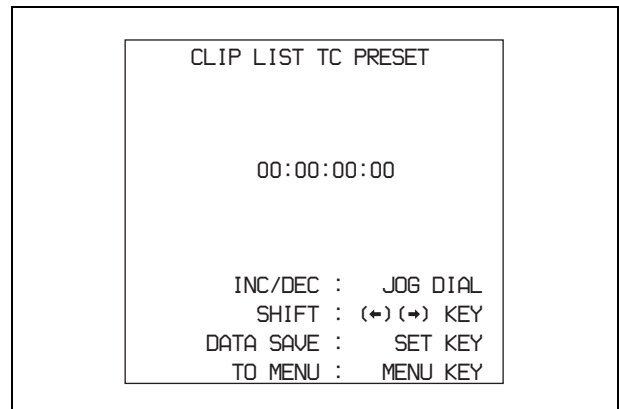
5-3-6 Setting the Start Timecode of the Current Clip List

The start timecode (LTC) of the current clip list is set to 00:00:00:00 when the unit is powered on and when a disc is inserted.

You can set the start timecode to any value. Proceed as follows.

- 1 In the CLIP menu, use the down arrow button to select TC PRESET and press the right arrow button.

A screen like the one shown below appears.



- 2 Repeat the following operations to set any LTC value.

- Use the left and right arrow buttons to select a digit.
- Rotate the jog dial to set the digit to any value.

- 3 Press the SET button.

The starting timecode of the current clip list is set to the specified LTC value. The count starts from that value when playback starts.

5-4 Using PDZ-1 Proxy Browsing Software

When a computer with the PDZ-1 Proxy Browsing Software installed is connected to this unit, you can transfer the proxy AV data and metadata files recorded on a disc to the computer. On the computer side, PDZ-1 enables you to browse the proxy AV data, add or modify metadata (titles, comments, essence marks, etc.), or create a clip list.

The modified metadata and the created clip list can then be written back to the disc loaded in this unit.

System requirements

The following are required to use PDZ-1.

- Computer: PC with Intel Pentium III CPU, at least 1 GHz
Installed memory: at least 512 MB
- Operating system: Microsoft Windows 2000 Service Pack 4 or higher, or Microsoft Windows XP Professional Service Pack 1 or higher
- Web browser: Internet Explorer 6.0 Service Pack 1 or higher
- DirectX: DirectX 8.1b or higher

To install PDZ-1

Insert the supplied CD-ROM (Proxy Browsing Software PDZ-1) in the CD-ROM drive of the computer and execute the Setup.exe file, then follow the installation instructions.

For details, refer to the ReadMe file contained on the CD-ROM disc.

Notes

- Make sure that the hard disk drive on which the work folder to store the material transferred from this unit has adequate free space. The amount of proxy AV data transferred is about 1.4 GB per disc (when recording in the DVCAM format).
- To transfer files between the computer and this unit requires this unit's IP address and other network-related settings to be made.

For details of the network-related settings, see "To change network settings" (page 82).

File Operations | Chapter

6

6-1 Overview

A remote computer can be connected to this unit and used to operate on recorded data which has been saved in data files, such as video and audio data files.

There are two ways to connect a remote computer.

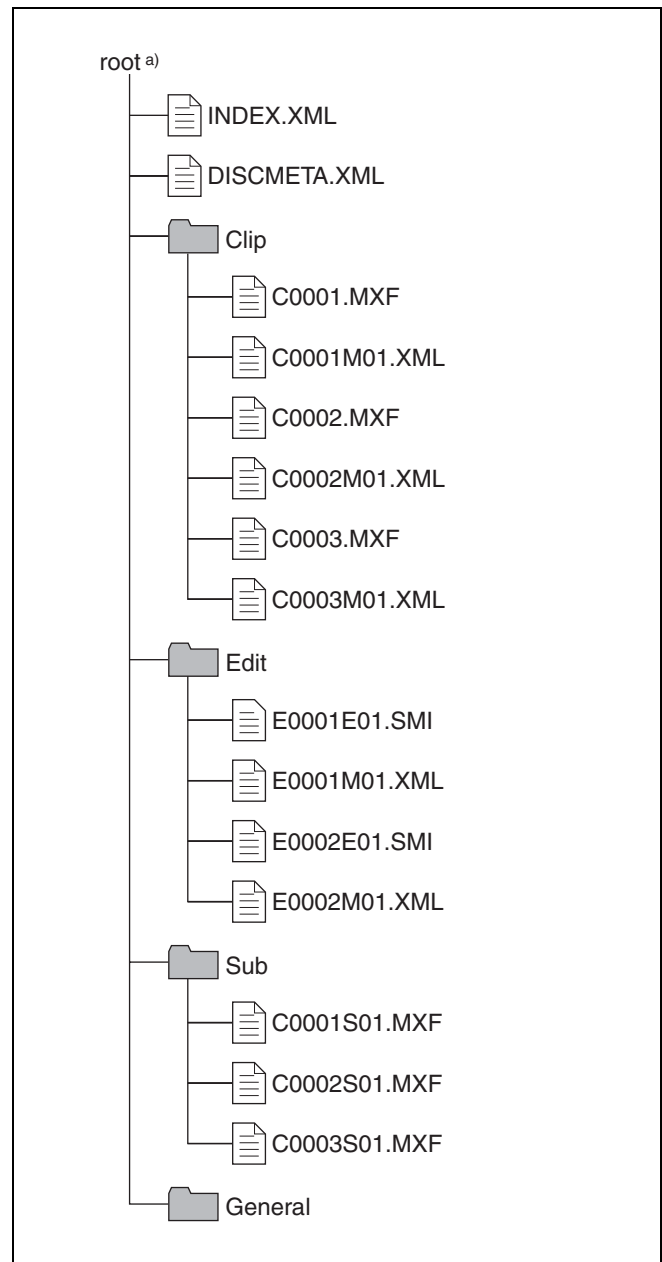
- FAM connection
Connect the i.S400 (i.LINK) connector on this unit to the i.LINK (IEEE1394) connector on the remote computer, using an i.LINK cable (*see page 58*).
- FTP connection
Connect the network connectors on this unit and the remote computer, using a network cable (*see page 59*).

6-1-1 Directory Structure

The following figure shows the directory structure of discs visible to a remote computer.

Note

This structure is not the same as the actual structure recorded on the disc.



a) Root directory

6-1-2 File Operation Restrictions

This section explains which operations are possible on files stored in each directory.

When required, the following operation tables distinguish reading and overwriting from partial reading and overwriting.

Read: Read data sequentially from the start to the end of the file.

Partial read: Read only a part of the data in the file.

Overwrite: Overwrite data sequentially from the start to the end of the file.

Partial overwrite: Overwrite data to a part of the file only.

Root directory

File name	Content	Operations				
		Read/ Partial read	Overwrite/ Partial overwrite	Rename	Create	Delete
INDEX.XML	Contains information about all material on the disc.	Yes	No	No	No	No
DISCMETA.XML	Contains the disc ID and disc label.	Yes	Yes ^{a)}	No	No	No
Other files	Files other than the above	—	No	—	No	—

a) Only files which can be overwritten by XDCAM

Notes

- Directories cannot be created in the root directory.
- The directories in the root directory (Clip, Edit, Sub, and General) cannot be deleted or renamed.

Clip Directory

File name	Content	Operations				
		Read/ Partial read	Overwrite/ Partial overwrite	Rename	Create	Delete
C*.MXF	Clip file created by recording (MXF file) *: 0001 to 0300	Yes	No	No	Yes ^{a)}	Yes ^{b)}
C*M01.XML	Metadata file generated automatically when C*.MXF file is created. *: 0001 to 0300	Yes	Yes ^{c)}	No	No ^{d)}	No ^{e)}
Other files	Files other than the above	—	No	—	No	—

a) Only files which are 2 seconds or longer in length, in a format matching the line mode format (525/625) and recording format (IMX50/IMX40/IMX30/DVCAM and number of audio channels) of the recorded sections of the disc, and which can be overwritten by XDCAM.

b) Only most recently recorded clip

c) Only files which can be overwritten by XDCAM

d) When a C*.MXF file is created, a C*M01.XML file with the same number is generated automatically.

e) When a C*.MXF is deleted, the C*M01.XML file with the same number is also deleted automatically.

Note

Directories cannot be created in the Clip directory.

Edit Directory

File name	Content	Operations				
		Read/ Partial read	Overwrite/ Partial overwrite	Rename	Create	Delete
E*E01.SMI	Clip list file *: 0001 to 0099	Yes	Yes ^{a)}	No	Yes ^{b)}	Yes ^{c)}
E*M01.XML	Metadata file generated automatically when E*E01.MXF file is created. *: 0001 to 0099	Yes	Yes ^{a)}	No	No ^{d)}	No ^{e)}
Other files	Files other than the above	–	No	–	No	–

a) Only files which can be overwritten by XDCAM. Partial overwriting is not possible.

b) Only files which can be overwritten by XDCAM

c) Only when the write inhibit tab on the disc is set to enable recording.

d) When an E*E01.MXF file is created, an E*M01.XML file with the same number is generated automatically.

e) When an E*E01.MXF is deleted, the E*M01.XML file with the same number is also deleted automatically.

Note

Directories cannot be created in the Edit directory.

Sub Directory

File name	Content	Operations				
		Read/ Partial read	Overwrite/ Partial overwrite	Rename	Create	Delete
C*S01.MXF	Proxy AV data (MXF) file generated automatically when a C*.MXF file is created. *: 0001 to 0300	Yes	No	No	No ^{a)}	No ^{b)}
Other files	Files other than the above	–	No	–	No	–

a) When a C*.MXF file is created, a C*S01.MXF file with the same number is generated automatically.

b) When a C*.MXF is deleted, the C*S01.MXF file with the same number is also deleted automatically.

Note

Directories cannot be created in the Sub directory.

General Directory

File name	Content	Operations				
		Read/ Partial read	Overwrite/ Partial overwrite	Rename	Create	Delete
Any file		Yes	Yes	Yes ^{a)}	Yes	Yes ^{b)}

a) File name up to 63 characters

b) Only when the write inhibit tab on the disc is set to enable recording.

0 to 9 (digits), a to z (lowercase alphabetic), A to Z (uppercase alphabetic), @ (at mark), – (minus), _ (underscore), . (period), and ~ (tilde).

The following directory operations are possible in the General directory.

- Directory creation (up to 64 levels, including the General directory)
- Deletion and renaming of directories

Notes

- The maximum number of files which can be created on a disc, including directories, is 5000.
- The following characters can be used in file names and directory names.

6-2 File Access Mode File Operations

File access mode operating environment

Operating system requirements for file operations by file access mode (called FAM below) are as follows.

- Computer operating system: Microsoft Windows 2000 Service Pack 4 or higher, or Microsoft Windows XP

Preparations

Do the following on the remote computer and this unit.

- Install the FAM driver on the remote computer (*see the next section*).
- Set extended menu item 215 PC REMOTE to “enable.”

See 7-3-2 “Extended Menu Operatoins” (page 75) for more information about how to make this setting.

To install the FAM driver



Insert the supplied CD-ROM (PDZ-1 Proxy Browsing Software) in the CD-ROM drive of the computer and execute the Setup.exe file, then follow the installation instructions.

For details, refer to the ReadMe file contained on the CD-ROM disc.

Making FAM connections

- 1 If there is a disc loaded in this unit, put the unit into the following state.
 - Playback, search and other disc operations (*see page 22*): Stopped
 - THUMBNAIL button (*see page 22*): Off
 - Disc access by DELETE, FORMAT, and so on in the System menu (*see page 84*): Stopped
- 2 If this unit is connected to a remote computer by FTP, log out from the FTP session (*see page 60*).
- 3 Connect the iS400 (i.LINK) connector on this unit to the i.LINK (IEEE1394) connector on the remote computer, using an i.LINK cable (*see connections illustration on page 27*).

Windows recognizes this unit as a removable disc, and displays one of the following icons on the remote computer's task bar:

- Windows 2000: 
- Windows XP: 

The remote computer is now able to perform file operations when a disc is inserted into this unit.

Operation limitations during FAM connections

- Front panel operations are disabled, except for operations with the EJECT button.
- This unit cannot be controlled from devices connected to the iS400 (i.LINK) connector with the AV/C protocol.
- Signal input to this unit and signal output from this unit are stopped.

Operating on files

1 Start Explorer.

Check that a drive letter has been assigned to this unit. (The drive letter will differ depending on the number of other peripherals connected to the remote computer.)

2 Use Explorer to perform file operations on the disc loaded in this unit.

You can operate in the same way that you operate on local drives and files on network computers.

Notes

- If you power this unit off during an FAM connection, the data transferred thus far is discarded.
- All file operations are not possible for some types of files.

For details, see 6-1-2 “File Operation Restrictions” (page 56).

To eject discs from a remote computer

Right click the icon representing this unit in Explorer, and select Eject from the menu which appears.

Exiting file operations

Note

Do not disconnect the cable before performing steps 1 to 3.

1 Do one of the following on the or icon displayed in the remote computer's taskbar.

- Double click.
- Right click, and select one of the following commands from the menu which appears.
 - **Windows 2000:** Unplug or eject hardware
 - **Windows XP:** Safely Remove Hardware
- **Windows 2000:** The Unplug or Eject Hardware dialog appears.
- **Windows XP:** The Safely Remove Hardware dialog appears.

- 2 Select “Sony XDCAM PDW-V1 IEEE 1394 SBP2 Device” and click Stop.

The Stop a Hardware device dialog appears.

- 3 Select “Sony XDCAM PDW-V1 IEEE 1394 SBP2 Device” and click OK.
 - **Windows 2000:** A confirmation message appears.
 - **Windows XP:** “Sony XDCAM PDW-V1 IEEE 1394 SBP2 Device” is deleted from the Hardware devices list.

This unit can now resume normal operations. (The limitations described in “Operation limitations during FAM connections” (*see page 58*) no longer apply.)

- 4 Disconnect the i.LINK cable as required.

Reconnecting

To reconnect after exiting file operations, do one of the following, depending on whether an i.LINK cable is connected.

i.LINK cable is not connected: Connect this unit and a remote computer with an i.LINK cable.

i.LINK cable is connected: Disconnect the i.LINK cable from either this unit or the remote computer, wait for at least 10 seconds, and then reconnect the disconnected cable.

The unit is powered off and an i.LINK cable is connected: Power the unit on.

To disable FAM connections

Execute one of the procedures described in the previous section “Reconnecting” to make a FAM connection between this unit and the remote computer. To disable FAM connections, set extended menu item 215 “PC REMOTE” to “disable.”

For more information about how to make this setting, see 7-3-2 “Extended Menu Operations” (page 75).

6-3 FTP File Operations

File operations between this unit and a remote computer can be carried out by the File Transfer Protocol (called FTP below).

Preparations

- 1 Connect the network connectors of this unit and a remote computer with a network cable (*see connections illustration on page 30*). Or connect this unit to the network to which the remote computer is connected (*see connections illustration on page 31*).
- 2 Set the IP address and other network setting items for this unit.

For details, see “To change network settings” (page 82).

If network settings have already been made
Check the IP address of this unit.

For details, see “To check the assigned IP address” (page 82).

- 3 Set the remote control switch to NETWORK (*see page 20*).

Making FTP connections

FTP connections between this unit and a remote computer can be made with either of the following.

- The command prompt
- FTP client software

This section explains how to use the command prompt. For more information about using FTP client software, refer to the documentation of the FTP client software on your system.

To log in

If this unit is connected to a remote computer with a FAM connection, first exit file operations on the FAM connection (*see page 58*).

- 1 Load a disc into this unit and put the unit into the following state.
 - Playback, search and other disc operations (*see page 22*): Stopped
 - THUMBNAIL button (*see page 22*): Off
 - Disc access by DELETE, FORMAT, and so on in the System menu (*see page 84*): Stopped

Note

Login is not possible unless a disc is loaded and the unit is in the state described above.

- 2** Start the command prompt.
- 3** Enter “ftp <SP> <IP address>,” and press the Enter key. (<SP> refers to a space.)

For example, if the IP address of this unit is set to “192.168.001.010,” enter “ftp 192.168.1.10.”

Refer to the Windows help for more information about the FTP command.

If the connection succeeds, you are prompted to enter a user name.

- 4** Enter the user name “admin” and press the Enter key.

When the user name is verified, you are prompted to enter a password.

- 5** Enter the password and press the Enter key.

The password is set to “pdw-v1” when the unit is shipped from the factory.
The login is complete when the password is verified.

See 6-3-1 “Command List” (page 61) for the FTP commands supported by this unit.

If the connection times out

This unit terminates FTP connections if no command is received within 90 seconds of the last command. If this occurs, log out (*see the next section*) and repeat steps **2** to **4**.

Note

If you power this unit off during an FTP connection, the data transferred thus far is discarded.

To log out

To log out after finishing file operations, enter “QUIT” at the command prompt and press the Enter key.

6-3-1 Command List

This unit supports standard FTP commands (*see the next section*), and extended FTP commands (*see page 65*).

Standard commands

The following table shows the standard FTP commands supported by this unit.

In the command syntax column, <SP> means a space, entered by pressing the space bar, and <CRLF> means a new line, entered by pressing the Enter key.

Command name	Description	Command syntax
USER	Send this command to begin the login process.	USER <SP> <username> <CRLF> Input example: USER admin
PASS	After sending the USER command, send this command to complete the login process.	PASS <SP> <password> <CRLF> Input example: PASS pdw-v1
QUIT	Terminates the FTP connection. If a file is being transferred, terminates after completion of the transfer.	QUIT <CRLF>
PORT	Specifies the IP address and port to which this unit should connect for the next file transfer (for data transfer from this unit).	PORT <SP> <h1,h2,h3,h4,p1,p2> <CRLF> <ul style="list-style-type: none"> h1 (most significant byte) to h4 (least significant byte): IP address p1 (most significant byte), p2 (least significant byte): Port address Input example: PORT 10,0,0,1,242,48 (IP address: 10.0.0.1, Port number: 62000)
PASV	This command requests this unit to "listen" on a data port (which is not its default data port). (It puts this unit into passive mode, waiting for the remote computer to make a data connection.)	PASV <CRLF>
TYPE	Specifies the type of data to be transferred.	TYPE <SP> <type-code (options delimited by <SP>)> <CRLF> <type-code> can be any of the following. However, for XDCAM, data is always transferred as "I," regardless of the type-code specification. <ul style="list-style-type: none"> A: ASCII <ul style="list-style-type: none"> N: Non-print (default) T: Telnet format C: ASA Carriage Control E: EBCDIC <ul style="list-style-type: none"> N: Non-print T: Telnet format C: ASA Carriage Control I: IMAGE (Binary) L: LOCAL BYTE <ul style="list-style-type: none"> SIZE: byte size Input example: TYPE I

Command name	Description	Command syntax
STRU	Specifies the data structure.	<p>STRU <SP> <structure-code> <CRLF></p> <p><structure-code> can be any of the following. However, for XDCAM, the structure is always “F,” regardless of the structure-code specification.</p> <ul style="list-style-type: none"> • F: File structure (default) • R: Record structure • P: Page structure <p>Input example: STRU F</p>
MODE	Specifies the transfer mode.	<p>MODE <SP> <mode-code> <CRLF></p> <p><mode-code> can be any of the following. However, for XDCAM, the mode is always “S,” regardless of the mode-code specification.</p> <ul style="list-style-type: none"> • S: Stream mode (default) • B: Block mode • C: Compressed mode <p>Input example: MODE S</p>
LIST	Sends a list of files from this unit to the remote computer.	<p>LIST <SP> <options> <SP> <path-name> <CRLF></p> <p><options> can be any of the following.</p> <ul style="list-style-type: none"> • -a: Also display file names that begin with “.” • -F: Append “/” to directory names. <p>The following data is transferred, depending on whether <path-name> specifies a directory or file.</p> <ul style="list-style-type: none"> • Directory specified: A list of the files in the specified directory • File specified: Information about the specified file • No specification: A list of the files in the current directory <p>The wildcard characters “*” (any string) and “?” (any character) may be used in <path-name>.</p> <p>Input example 1: LIST -a Clip Input example 2: LIST Clip/*.MXF</p>
NLST	Sends a list of file names from this unit to the remote computer, with no other information.	<p>NLST <SP> <options or path-name> <CRLF></p> <p>The following options may be specified when no path name is specified.</p> <ul style="list-style-type: none"> • -a: Also display file names that begin with “.” • -l: Display information other than file name (gives the same result as the LIST command). • -F: Append “/” to directory names. <p>The following data is transferred, depending on whether <path-name> specifies a directory or file.</p> <ul style="list-style-type: none"> • Directory specified: A list of the file names only in the specified directory • No specification: A list of the file names only in the current directory. <p>The wildcard characters “*” (any string) and “?” (any character) may be used in <path-name>.</p> <p>Input example 1: NLST l Input example 2: NLST Clip/*.MXF</p>
RETR	Begins transfer of a copy of a file in the specified path on this unit to the current directory on the remote computer.	<p>RETR <SP> <path-name> <CRLF></p> <p>Input example: RETR Clip/C0001.MXF</p>

Command name	Description	Command syntax
STOR	<p>Begins transfer of a copy of a file in the specified path on the remote computer to the current directory on this unit. Depending on the type of file transferred, the following items are created.</p> <ul style="list-style-type: none"> • C*.MXF file <ul style="list-style-type: none"> - C*M01.XML file (metadata) - C*S01.MXF file (proxy AV data) - UMID (The UMID of the copy source file is not saved. However, it is saved if an immediately preceding SITE UMMD extended command has been issued.) • E*E01.SMI file <ul style="list-style-type: none"> - E*M01.XML file (metadata) <p>*: 0001 to 0300</p> <p>Notes</p> <ul style="list-style-type: none"> • For C*.MXF files, some data, such as file header metadata, may be missing. • Depending on the transfer destination directory and the file type, transfer may not be possible. • No transfer is made if the numbering rules of the C*.MXF file specified with the STOR command do not match those of the XDCAM equipment. <p><i>For details, see 6-1-2 “File Operation Restrictions” (page 56).</i></p>	<p>STOR <SP> <path-name> <CRLF></p> <p>Input example: STOR Data/E0001E01.SMI</p>
RNFR RNT0	<p>Rename a file. Specify the file to be renamed with the RNFR command, and specify the new name with the RNT0 command. (Always follow a RNFR command with a RNT0 command.)</p> <p>Note</p> <p>Files in directories other than the General directory cannot be renamed.</p> <p><i>For details, see 6-1-2 “File Operation Restrictions” (page 56).</i></p>	<p>RNFR <SP> <path-name (before change)> <CRLF> RNT0 <SP> <path-name (after change)> <CRLF></p> <p>Input example: RNFR General/info.txt RNT0 General/clip_info.txt</p>
DELE	<p>Deletes the specified file on this unit.</p> <p>Note</p> <p>Depending on the directory and file type, deletion may not be possible.</p> <p><i>For details, see 6-1-2 “File Operation Restrictions” (page 56).</i></p>	<p>DELE <SP> <path-name> <CRLF></p> <p>Input example: DELE Clip/C0099.MXF</p>

Command name	Description	Command syntax
STAT	<p>Sends information about properties of the specified file, or about data transfer status, from this unit to the remote computer.</p> <p>The following property information is sent, depending on the file type.</p> <ul style="list-style-type: none"> MXF file <ul style="list-style-type: none"> File name File type CODEC type Frame rate Number of audio channels Duration non-MXF file <ul style="list-style-type: none"> File name 	<p>STAT <SP> <path-name> <CRLF></p> <p>The following data is transferred, depending on whether a file is specified with <path-name>.</p> <ul style="list-style-type: none"> File specified: The properties of the specified file No specification: The size of the data transferred thus far (unit: bytes) <p>Input example: STAT Clip/C0001.MXF</p>
ABOR	Requests this unit to abort a file transfer currently in progress.	ABOR <CRLF>
SYST	Displays the system name of this unit.	SYST <CRLF>
HELP	Displays a list of the commands supported by this unit, or an explanation of the specified command.	<p>HELP <SP> <command-name> <CRLF></p> <p>The following data is transferred, depending on whether a command name is specified with <command-name>.</p> <ul style="list-style-type: none"> Command name specified: Explanation of the specified command. No specification: Command list <p>Input example: HELP RETR</p>
NOOP	Does nothing except return a response. (Used to check whether this unit is running.)	NOOP <CRLF>
PWD	Displays the current directory ("/" if the directory is the root directory).	PWD <CRLF>
CWD	Changes the current directory (moves from the current directory to another directory).	<p>CWD <SP> <path-name> <CRLF></p> <p>Moves to a directory as follows, depending on whether a directory is specified with <path-name>.</p> <ul style="list-style-type: none"> Directory specified: To the specified directory No specification: To the root directory <p>Input example: CWD General</p>
CDUP	Moves one level up in the directory structure (makes the parent of the current directory be the current directory).	CDUP <CRLF>
MKD	<p>Creates a new directory.</p> <p>Note Directories can be created only in the General directory.</p> <p><i>For details, see 6-1-2 "File Operation Restrictions" (page 56).</i></p>	MKD <SP> <path-name> <CRLF>
RMD	<p>Deletes a directory.</p> <p>Note Directories can be deleted only in the General directory.</p> <p><i>For details, see 6-1-2 "File Operation Restrictions" (page 56).</i></p>	RMD <SP> <path-name> <CRLF>

Extended commands

The following table shows the extended FTP commands supported by this unit.

In the command syntax column, <SP> means a space, entered by pressing the space bar, and <CRLF> means a new line, entered by pressing the Enter key.

Command name	Description	Command syntax
SITE REPF	<p>Sends an MXF file from the specified path on this unit to the remote computer. This command allows you to specify a segment in the body of the MXF file (composed of video and audio data), for transfer of the required segment only.</p> <p>Note A segment greater than the file size cannot be specified.</p>	<p>SITE REPF <SP> <path-name> <SP> <start-frame> <SP> <transfer-size> <CRLF></p> <p><start-frame> specifies an offset from the start of the file. Data is transferred from the video frame at the offset (the first frame is 0). <transfer-size> specifies the number of video frames to transfer (specify 0 to transfer to the end of the file).</p> <p>Input example: SITE REPF Clip/C0001.MXF 5 150 (Transfer C0001.MXF. Body data is transferred only from frame 6 to frame 155.)</p>
SITE FSTS	<p>Acquires the system status of this unit. One of the following status codes is sent.</p> <p>0: Initial state, or no disc is loaded. 1: File system mount is OK. 3: File system mount is not OK.</p>	SITE FSTS <CRLF>
SITE MEID	Acquires the media ID of the disc loaded in this unit.	SITE MEID <CRLF>
SITE FUNC	<p>Acquires the function and version of the extended commands. Information is sent in the following format.</p> <p><main function> <SP> <branch function> <SP> <branch function version></p> <p>For XDCAM, sent in a format like "200 MXF DISK 1" (200 is a response code).</p>	SITE FUNC <CRLF>
SITE UMMD	When C*.MXF file (*: 0001 to 0300) is sent with the STOR, the copy source UMID is saved if this command is invoked immediately before the STOR command.	SITE UMMD <CRLF>

7-1 Menu System Configuration

The settings for this unit use the following menus.

- Setup menu
See the next item.
- Maintenance menu
This provides audio control, and network and setup menu settings, and also shows version information.
For details, see 7-4 “Maintenance Menu” (page 79).
- System menu
This provides disc formatting, date setting, and similar operations.
For details, see 7-5 “System Menu” (page 84).

Setup menu

The setup menu system of this unit comprises the basic setup menu (also referred to simply as “basic menu”) and extended setup menu (also referred to simply as “extended menu”).

- **Basic menu**
This menu is used to make settings relating, for example, to the following.
 - the digital hours meter
 - the preroll time
 - the text information superimposed on the video output to the monitor
 - the menu banks for retaining menu settings
- **Extended menu**
This menu is used to make a wide range of settings relating to the functions of this unit, for example, the control panel functions, video and audio control, and digital data processing.

Configuration of the basic setup menu

The basic setup menu comprises the following groups of items.

Item group	Function	Refer to
Items H01 to H15	Display of the total number of hours the unit has been powered on, and other information collected by the digital hours meter	<i>page 86</i>
Items 001 to 099	Settings relating to the preroll time, superimposed text information, switching between 525(U)-line, 525(J)-line and 625-line operation modes, etc.	<i>page 67</i>
Items B01 to B13	Settings relating to the menu banks for saving menu settings	<i>page 69</i>

Configuration of the extended setup menu

The extended setup menu comprises the following groups of items.

Item group	Function	Refer to
Items 100 to 199	Settings relating to control panels	<i>page 72</i>
Items 200 to 299	Settings relating to the remote control interface	<i>page 72</i>
Items 300 to 399	Settings relating to editing operations	<i>page 72</i>
Items 400 to 499	Settings relating to preroll	<i>page 72</i>
Items 500 to 599	Settings relating to disc protection	<i>page 72</i>
Items 600 to 699	Settings relating to the time code reader, metadata, and UMID	<i>page 73</i>
Items 700 to 799	Settings relating to video control	<i>page 73</i>
Items 800 to 899	Settings relating to audio control	<i>page 75</i>
Items 900 to 999	Settings relating to digital processing	<i>page 75</i>

7-2 Basic Setup Menu

7-2-1 Items in the Basic Setup Menu

The basic menu items (excluding the items related to the digital hours meter) are listed in the following table.

In the Settings column of the table, underlined values indicate the factory default settings.

Item number	Item name	Settings
001	PREROLL TIME	0S... <u>5S</u> ...30S : Set the preroll time to between 0 and 30 seconds in steps of 1 second. A preroll time of at least 5 seconds is recommended when using this unit for editing.
002	CHARACTER H-POSITION	Adjust the horizontal screen position (as a hexadecimal value) of the text information output from the VIDEO OUT connector and SDI OUT connector for superimposed display on the monitor. 00... <u>0A</u> ...2A (525(U)/525(J)-line modes) /00... <u>09</u> ...29 (625-line mode) : The hexadecimal value 00 is for the far left of the screen. Increasing the value moves the position of the characters to the right. When setting this item, watch the monitor screen, and adjust to the required state.
003	CHARACTER V-POSITION	Adjust the vertical screen position (as a hexadecimal value) of the text information output from the VIDEO OUT connector and SDI OUT connector for superimposed display on the monitor. 00... <u>2E</u> ...38 (525(U)/525(J)-line modes)/00... <u>37</u> ...43 (625-line mode) : The hexadecimal value 00 is for the top of the screen. Increasing the value lowers the position of the characters. When setting this item, watch the monitor screen, and adjust to the required state.
005	DISPLAY INFORMATION SELECT	Determine the kind of text information to be output from the VIDEO OUT connector and SDI OUT connector. <u>T&sta</u> : Time data and the units status. T&UB : Time data and user bit data. (When UB is selected with the COUNTER button, the user bit data and time data arranged in that order are displayed.) T&CNT : Time data and counter count. (When COUNTER is selected with the COUNTER button, the counter count and time data arranged in that order are displayed.) T&T : Time data and time code (TC or VITC). T&clp : Time code and clip name time : Time code (TC or VITC) only.
006	LOCAL FUNCTION ENABLE	Determine which recording and playback control buttons on the control panel are enabled when this unit is controlled from external equipment. dis : All buttons and switches are disabled. st&ej : Only the STOP button and EJECT button are enabled. ena : All buttons and switches are enabled.
007	TAPE TIMER DISPLAY	Determine whether to display the counter in 12-hour mode or 24-hour mode. + -12H : 12-hour mode 24H : 24-hour mode
009	CHARACTER TYPE	Determine the type of characters such as time code output from the VIDEO OUT connector and SDI OUT connector for superimposed display on the monitor. <u>white</u> : White letters on a black background. black : Black letters on a white background. W/out : White letters with black outline. B/out : Black letters with white outline. When setting this item, watch the monitor screen, and adjust to the required state.



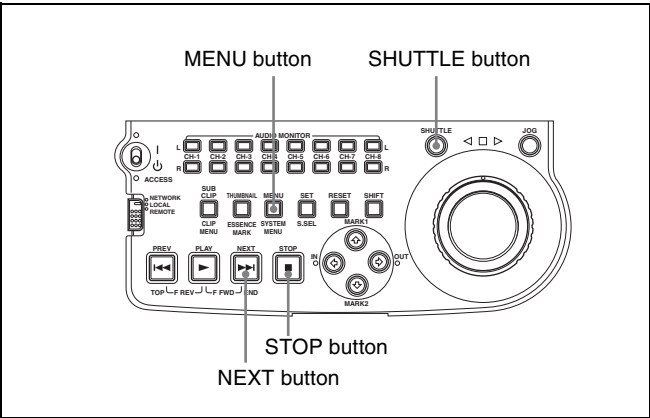
Item number	Item name	Settings
011	CHARACTER V-SIZE	Determine the vertical size of characters such as time code output from the VIDEO OUT connector and SDI OUT connector for superimposed display on the monitor. ×1 :Standard size ×2 :2 times standard size When setting this item, watch the monitor screen, and adjust to the required state.
012	CONDITION DISPLAY ON VIDEO MONITOR	Select whether to display disc condition marks in the image display and external monitor output (output from the VIDEO OUT and SDI OUT connectors). dis : Do not display (disable). ena : Display (enable).
013	525/625 SYSTEM SELECT	Specify whether to enable switching between 525(U)-line, 525(J)-line and 625-line modes. off : Do not enable system switching. on : Enable system switching. <i>For the switching between 525(U)/525(J)/625-line modes, see page 70.</i> Note When you switch line modes, all basic menu and extended menu items are set to the factory defaults for the selected line mode.
016	ALARM DISPLAY	Select whether or not to display alarm messages. off : Do not display alarm messages. (However, certain important alarms are displayed). limit : Display only a minimum number of alarm messages. on : Display all alarm messages. <i>For details about alarm message display conditions, see 8-3-1 “Alarm List” (page 87).</i>
017	SUB STATUS DISPLAY SELECT	Determine the kind of sub status information to be output from the VIDEO OUT connector and SDI OUT connector. off : Do not output sub status information. clip : Selected clip number/total number of clips Note When the CHARACTER button setting is for no superimposing text information, sub status information is not displayed when this item is set to “clip name.”
024	MENU CHARACTER TYPE	Determine the type of characters in menu text output from the VIDEO OUT connector and SDI OUT connector for superimposed display on the monitor. white : White letters on a black background. black : Black letters on a white background. W/out : White letters with black outline. B/out : Black letters with white outline. When setting this item, watch the monitor screen, and adjust to the required state.
029	STORED OWNERSHIP	Specify whether to enable changing UMID ownership information settings (COUNTRY, ORGANIZATION and USER). off : Do not enable. on : Enable. <i>See 7-3-3 “Using UMID Data” (page 77) for more information about UMID.</i>
031	RECORDING FORMAT	Select the recording format. IMX50 : MPEG IMX 50 IMX40 : MPEG IMX 40 IMX30 : MPEG IMX 30 DVCAM : DVCAM
032	LCD MONITOR MODE	Set the aspect ratio for the image display. auto : the aspect ratio of the display screen automatically adjusts to the aspect ratio of the input material. 16:9 : set the aspect ratio to 16:9. 4:3 : set the aspect ratio to 4:3.

Item number	Item name	Settings
B01	RECALL SETUP BANK-1	Set to "on" to recall menu settings from menu bank 1.
B02	RECALL SETUP BANK-2	Set to "on" to recall menu settings from menu bank 2.
B03	RECALL SETUP BANK-3	Set to "on" to recall menu settings from menu bank 3.
B11	SAVE SETUP BANK-1	Set to "on" to save current menu settings to menu bank 1.
B12	SAVE SETUP BANK-2	Set to "on" to save current menu settings to menu bank 2.
B13	SAVE SETUP BANK-3	Set to "on" to save current menu settings to menu bank 3.

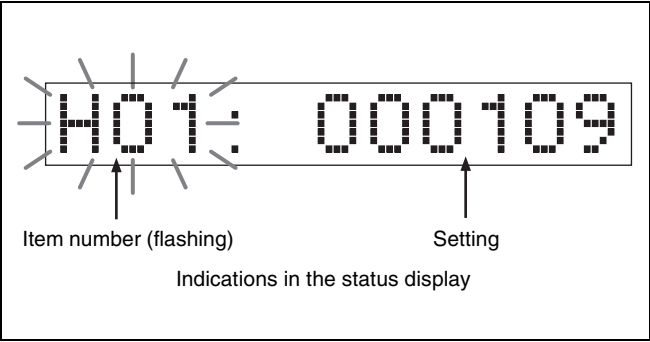
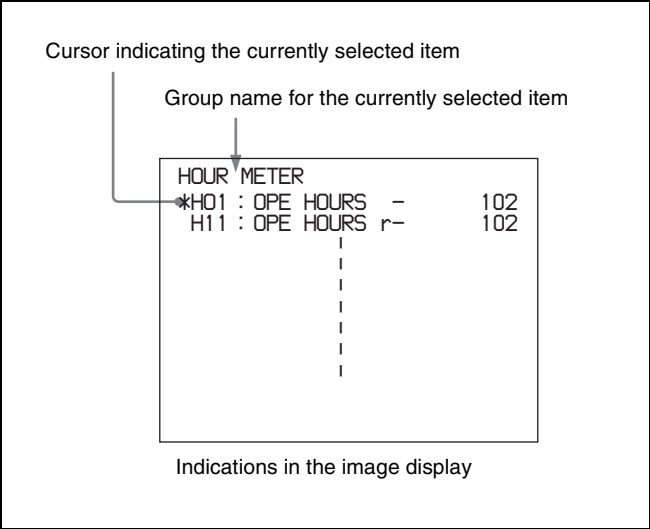
7-2-2 Basic Menu Operations

This section describes the basic menu display and how to change the settings.

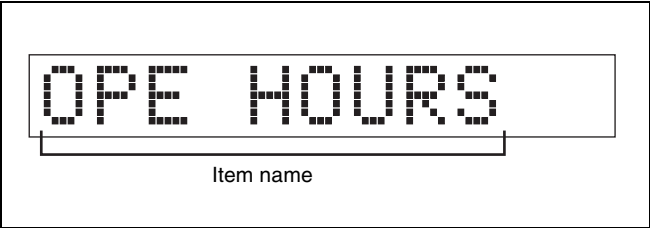
Displaying the menu



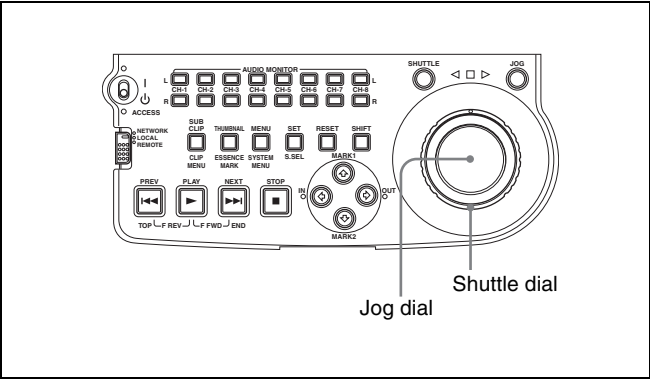
Press the MENU button. The SHUTTLE button and NEXT button light and the setting of the currently selected menu item appears in the image display and status display. (The STOP button also lights when a menu item with sub-items is selected.)



To display the full item name Hold down the NEXT button.



Changing the currently displayed menu item

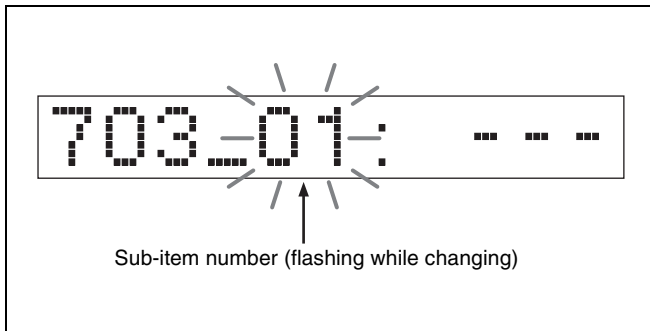


Turn the jog dial or shuttle dial. Turning the jog dial clockwise increments the item number, and turning it counterclockwise decrements the item number. The item number changes at a rate depending on the jog dial rotation rate. When you turn the shuttle dial, the item number changes at a rate depending on the shuttle dial position.

To change the currently displayed sub-item

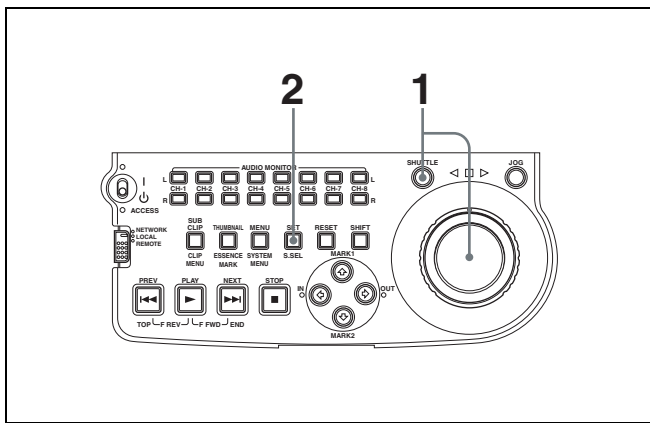
Hold down the STOP button, and turn the jog dial or shuttle dial.

The sub-item number changes at a rate depending on the jog dial rotation rate or on the shuttle dial position.



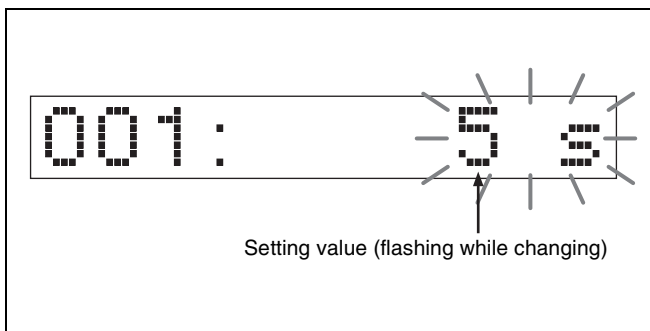
Changing a menu item setting value

To change the setting value of the currently displayed menu item, do as follows.



- 1 Hold down the SHUTTLE button, and turn the jog dial or shuttle dial.

The setting value changes at a rate depending on the jog dial rotation rate or on the shuttle dial position.



- 2 When the desired setting value is displayed, press the SET button.

This saves the new setting value, and the menu display disappears from the image display and status display.

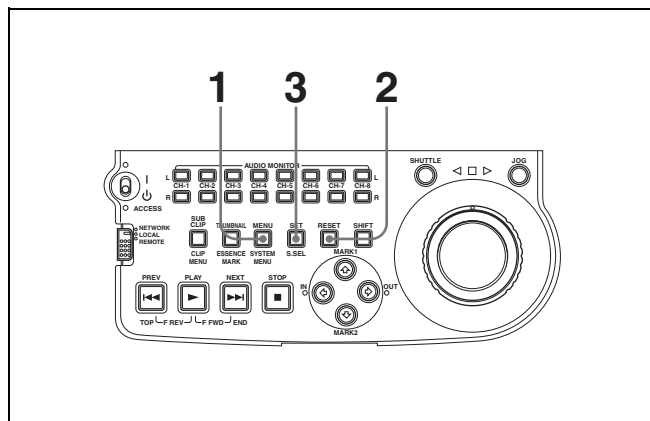
To abandon making a change

Press the MENU button before pressing the SET button.

The menu display disappears from the image display and status display without the new setting value being saved.

Resetting the menu settings to their factory default values

To reset the current active menu settings to their factory default values, do as follows.



- 1 Press the MENU button.

The menu appears in the image display and status display.

- 2 Press the RESET button.

A message “INITIALIZE ALL ITEMS TO FACTORY RESET VALUES?” appears in the image display and a message “Init setup” appears in the status display.

To abandon operations and return to the setup menu display

Press the RESET button again.

- 3 Press the SET button.


The menu settings are reset to their factory default settings.

Switching between 525(U)-line, 525(J)-line and 625-line modes (menu item 013)

To switch between 525(U)-line, 525(J)-line and 625-line operation modes, do as follows.

- 1 Press the MENU button.

- 2 Turn the jog dial or shuttle dial to display menu item 013 in the time data display.

- 3 Hold down the SHUTTLE button, and turn the jog dial or shuttle dial to set menu item 013 to “on.”
- 4 Press the SET button.
- 5 Hold down the SHUTTLE button, and turn the jog dial or shuttle dial to select the line mode 525(U), 525(J) or 625.
- 6 Press the SET button.
- 7 Turn the unit off (move the on/standby switch to the  position to put the unit in the standby state).

Next time the unit is turned on (when the unit is put in the operating state by moving the on/standby switch to the **I** position), it operates in the new mode.

Menu bank operations (menu items B01 to B13)

This unit allows menu settings to be saved in what are termed “menu banks.” Saved sets of menu settings can be recalled for use as required.

To jump to menu item B01

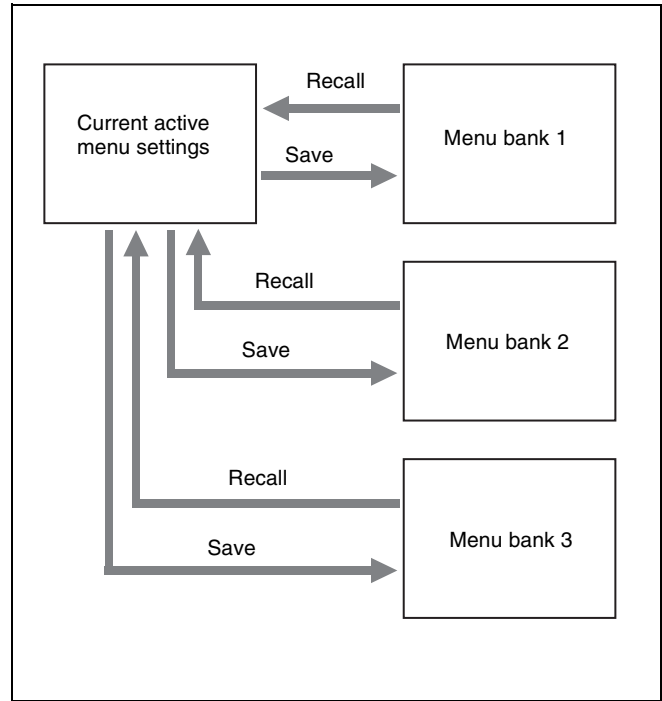
You can recall any required menu by turning the jog dial or shuttle dial after pressing the MENU button. If you press the MENU button first, then the COUNTER button, you can jump directly to menu item B01 or H01. The recalled menu item toggles between B01 and H01 every time you press the COUNTER button.

Saving the current active menu settings

Set one of menu items B11 “SAVE SETUP BANK-1” to B13 “SAVE SETUP BANK-3” to “on,” depending on which of the menu banks you wish to save in, then press the SET button.

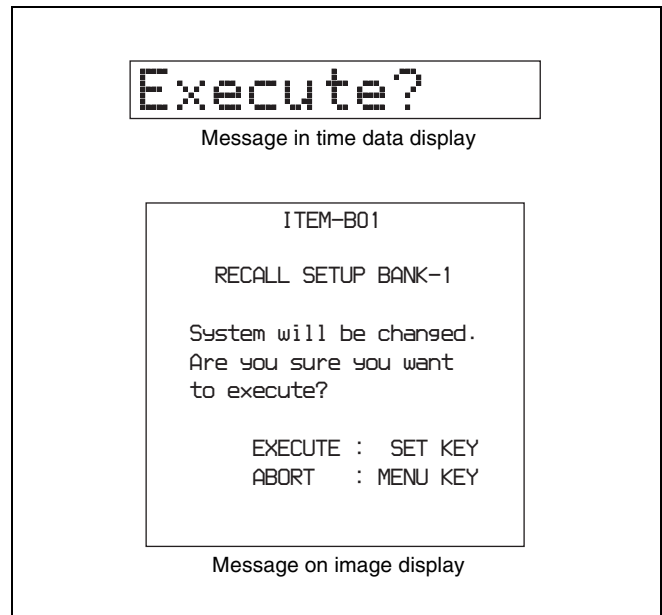
Recalling settings from a menu bank

Set one of menu items B01 “RECALL SETUP BANK-1” to B03 “RECALL SETUP BANK-3” to “on,” depending on which of the menu banks you wish to recall from, then press the SET button.



Note

The following message appears if the line mode of the menu bank that you are about to recall differs from the current line mode.



Press the SET button to recall the settings and switch to the line mode saved in the menu bank. When you power the unit off and then on again, it will use the line mode and settings of the selected bank. To cancel the recall, press the MENU button.

7-3 Extended Menu

7-3-1 Items in the Extended Menu

The extended menu contains the following items.
In the Settings column of the table, underlined values indicate the factory default settings.

Menu items in the 100s, relating to the control panels

Item number	Item name	Settings
101	SELECTION FOR SEARCH DIAL ENABLE	Select how the unit enters the shuttle or jog mode. dial : Press the SHUTTLE or JOG button or, except during recording/editing, turn the jog dial or shuttle dial. key : Press the SHUTTLE or JOG button.
114	AUDIO MONITOR OUTPUT LEVEL	Select whether or not to control the level of the audio signal output from the AUDIO MONITOR OUT connector with the LEVEL knob for the PHONES jack. var : Control. fixed : Do not control.

Menu items in the 200s, relating to the remote control interface

Item number	Item name	Settings
215	PC REMOTE	Specify whether to enable FAM connections between this unit and remote computers. dis : Disable FAM connections. ena : Enable FAM connections.

Menu items in the 300s, relating to editing operations

Item number	Item name	Settings
320	DIGITAL AUDIO PB PROCESS ON EDIT POINT	Select the treatment of audio playback at edit points. cut : Carry out a cut (possibly resulting in audio discontinuities at the edit point). fade : Fade out and fade in.

Menu items in the 400s, relating to preroll

Item number	Item name	Settings
401	FUNCTION MODE AFTER CUE-UP	Select the state that the unit goes into after a cuing-up operation. stop : Stops (the stop mode). still : Still playback (in jog and shuttle mode).

Menu items in the 500s, relating to disc protection

Item number	Item name	Settings
501	STILL TIMER	To protect the disc against shock and vibrations, and to lengthen the life of the laser diodes, the unit automatically enters standby off mode whenever a specified time elapses in a disc stop mode (stop mode or the still picture mode of search mode). This allows you to set the time after which the unit exits a disc stop mode and enters standby off mode. 0.5 s to 8 m to 30 m : Can be set in the range from 0.5 seconds to 30 minutes. off : Do not put into standby off mode.

Menu items in the 600s, relating to the time code reader, metadata, and UMID

Item number	Item name	Settings
601	VITC POSITION SEL-1	<p>Select a line into which to insert VITC signals for DVCAM playback signals. ^{a)}</p> <p>12H ... 16H ... 20H (in 525(U)/525(J)-line modes) 9H ... 19H ... 22H (in 625-line mode)</p> <p>Note You can insert the VITC signal in two places. To insert it in two places, set both items 601 and 602.</p> <p>a) In the DVCAM format, VITC is recorded as VAUX (Video Auxiliary) data. Because VITC is inserted into video signals by the VITC generator only during playback, the insertion line can be specified only for playback.</p>
602	VITC POSITION SEL-2	<p>Select a line into which to insert VITC signals for DVCAM playback signals. ^{a)}</p> <p>12H ... 18H ... 20H (in 525(U)/525(J)-line modes) 9H ... 21H ... 22H (in 625-line mode)</p> <p>Note You can insert the VITC signal in two places. To insert it in two places, set both items 601 and 602.</p> <p>a) In the DVCAM format, VITC is recorded as VAUX (Video Auxiliary) data. Because VITC is inserted into video signals by the VITC generator only during playback, the insertion line can be specified only for playback.</p>
628	DF MODE	<p>Select either drop-frame mode or non-drop frame mode for the counter (when 525(U) or 525(J)-line mode is selected).</p> <p>on (df): Drop-frame mode off (ndf): Non-drop frame mode</p>
651	UMID SDI OUTPUT	<p>Select whether to output UMID in the VANC of the SDI output.</p> <p>off: Do not output. on: Output.</p> <p><i>See 7-3-3 "Using UMID Data" (page 77) for more information about UMID.</i></p>
652	UMID SDI VANC LINE	<p>Select the line in which UMID is output when menu item 651 is set to "on."</p> <p>12H, 13H, 15H, 16H, 17H, 18H, 19H (525(U)/525(J)-line modes) 9H, 10H, 12H, 13H, 14H, 15H, 16H, 17H, 18H (625-line mode)</p> <p><i>See 7-3-3 "Using UMID Data" (page 77) for more information about UMID.</i></p>
657	ESSENCE MARK SDI OUTPUT	<p>Select whether to output essence marks in the SDI output VANC.</p> <p>off: Do not output. on: Output.</p>
660	ESSENCE MARK SDI VANC LINE	<p>When item 657 is set to "on," select the line to which to output essence marks.</p> <p>12H, 13H, 15H, 16H, 17H, 18H, 19H (525(U)/525(J)-line modes) 9H, 10H, 12H, 13H, 14H, 15H, 16H, 17H, 18H (625-line mode)</p>


Menu items in the 700s, relating to video control

Item number	Item name	Settings
703	BLANK LINE SELECT	<p>Switch blanking of the video output signal on or off for individual lines in the vertical blanking interval.</p> <p>The Y/C signal and odd/even fields are blanked simultaneously.</p>
	Sub-item	
	0	<p>ALL LINE</p> <p>--: Specify the blanking for each line separately. blink: Regardless of the setting of other sub-items, blank all lines which can be specified in this menu item. thru: Regardless of the setting of other sub-items, switch off blanking for all lines which can be specified in this menu item.</p>

Menu items in the 700s, relating to video control

Item number	Item name		Settings
In 525(u)-line mode	12 ... 19	LINE 12 ... LINE 19	Specify blanking for lines 12 to 19. blank: Carry out blanking. thru: Switch off blanking.
	20	LINE 20	Specify blanking for line 20. blank: Carry out blanking. half: Carry out half-blanking. thru: Switch off blanking.
In 525(J)-line mode	12 ... 20	LINE 12 ... LINE 20	Specify blanking for lines 12 to 20. blank: Carry out blanking. thru: Switch off blanking.
	21	LINE 21	Specify blanking for line 21. blank: Carry out blanking. half: Carry out half-blanking. thru: Switch off blanking.
In 625-line mode	9 ... 22	LINE 9, 322 ... LINE 22, 335	Specify blanking for lines 9, 322 to 22, 335. blank: Carry out blanking. thru: Switch off blanking.
	23	LINE 23	Specify blanking for line 23. half: Carry out half-blanking. thru: Switch off blanking.
705	EDGE SUBCARRIER REDUCER MODE		Select whether to enable the edge subcarrier reducer (ESR). on: Enable. off: Do not enable. When playing back a composite signal, set this to "on."
707	FORCED VERTICAL INTERPOLATION OFF		The "Y-add" function is normally switched on automatically during jog or variable speed playback. This item selects whether or not to force the "Y-add" function off. auto: Automatically switch the "Y-add" function on. off: Force the "Y-add" function off. The "Y-add" function is a circuit operation to interpolate the video signal vertically during jog or variable speed playback for the purpose of reducing the vertical movement of the playback picture.
713	VIDEO SETUP REFERENCE OUTPUT LEVEL		Select whether to add the setup (7.5%) to the output analog video signals (when 525(U) or 525(J)-line mode is selected). 0.0%: Do not add. 7.5%: Add. The default settings for each line mode are as follows: 525(U)-line mode: 7.5% 525(J)-line mode: 0.0%
715	VIDEO GAIN CONTROL		Adjust the video output level. –512 to 0 to 511
716	CHROMA GAIN CONTROL		Adjust the chroma output level. –512 to 0 to 511
717	CHROMA PHASE CONTROL		Adjust the chroma phase. –128 to 0 to 127
718	SETUP LEVEL (525(U)/525(J)-line modes)/BLACK LEVEL (625-line mode)		Adjust the setup level (black level). –512 to 0 to 511

Menu items in the 800s, relating to audio control

Item number	Item name	Settings
802	DIGITAL AUDIO MUTING IN SHUTTLE MODE	Set the audio muting conditions during shuttle playback. off : Not muted. on : Muted.
823	NON-AUDIO FLAG PB	Control non-audio flags in digital audio output.
	Sub-item	
	1 CH1/CH2	During playback (except E-E mode), set non-audio flags in digital audio output to the following states. on : Set to on (data is non-audio) auto : Set as follows. •When data is read from disc and confirmed: Follow the data. •When data from disc is not confirmed: Maintain current state.
	2 CH3/CH4	
	3 CH5/CH6	
	4 CH7/CH8	
828	SDI/DV AUDIO OUTPUT SELECT	Select the audio signals to assign to SDI and i.LINK(AV/C) audio output channels.
	Sub-item	
	1 CH1/CH2	tr1/2 : Tracks 1 and 2 assigned to audio output channels 1 and 2. tr3/4 : Tracks 3 and 4 assigned to audio output channels 1 and 2. tr5/6 : Tracks 5 and 6 assigned to audio output channels 1 and 2. tr7/8 : Tracks 7 and 8 assigned to audio output channels 1 and 2.
	2 CH3/CH4	tr1/2 : Tracks 1 and 2 assigned to audio output channels 3 and 4. tr3/4 : Tracks 3 and 4 assigned to audio output channels 3 and 4. tr5/6 : Tracks 5 and 6 assigned to audio output channels 3 and 4. tr7/8 : Tracks 7 and 8 assigned to audio output channels 3 and 4.
831	DV OUT AUDIO MODE	Select the audio mode for  S400 (i.LINK) connector (output). 4ch : 12 bit/32 kHz/4ch 2ch : 16 bit/48 kHz/2ch

Menu items in the 900s, relating to digital process

Item number	Item name	Settings
920	SD-SDI H-ANC CONTROL	Select whether or not to add information to the SDI output.
	Sub-item	
	1 AUDIO 5CH-8CH	off : Do not add digital audio data channels 5 to 8. on : Add digital audio data channels 5 to 8.
	2 RP188 ATC	off : Do not add RP188 time code data. on : Add RP188 time code data.

7-3-2 Extended Menu Operatoins

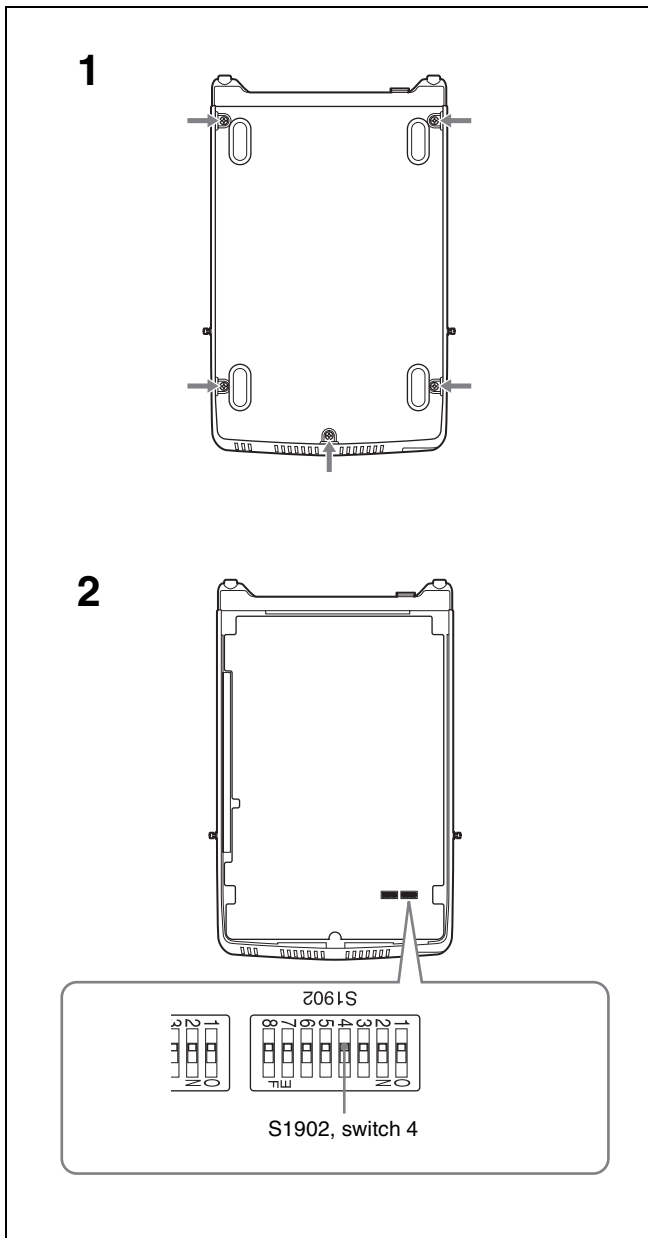
The extended menu can be used with the same procedures as in the basic menu.

However, since with the factory default settings the extended menu is not displayed, it is first necessary to enable display of the extended menu.

Enabling display of the extended menu

To enable display of the extended menu, an internal switch must be set to on, and extended menu display must be enabled in the maintenance menu. (The internal switch is set to on when the unit is shipped from the factory. Unless you have set it to off, there is no need to change the switch setting.)

To set the internal switch to on



- 1 Using a Phillips screwdriver, remove the bottom cover.

There are five screws fixing the cover.

- 2 Using a sharp implement such as a ball-point pen, set switch 4 in the S1902 group to the ON position (on the front side).

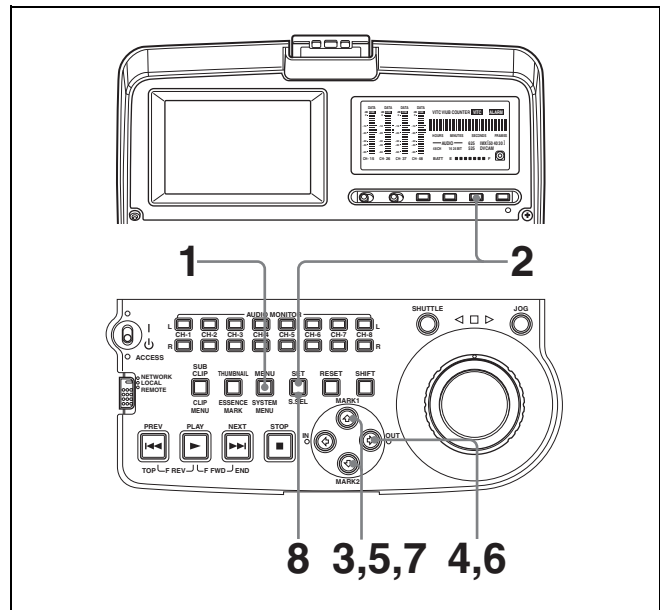
- 3 Replace the bottom cover.

Note

Tighten the screws firmly.

To enable extended menu display in the maintenance menu

Carry out the following operations.



- 1 Press the MENU button.

The menu appears in the status display.

- 2 Hold down the COUNTER button, and press the SET button.

In the status display, first “MAINTENANCE MENU” appears momentarily, and then the item group name appears.

- 3 Using the \uparrow/\downarrow buttons, display “Setup” in the status display.

Setup

- 4 Press the \Rightarrow button.

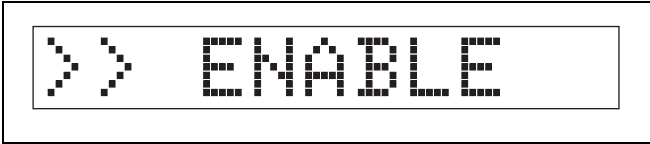
- 5 Using the \uparrow/\downarrow buttons, display “> Extended” in the status display.

> Extended

- 6 Press the \Rightarrow button.

The status display shows the current setting (“>> DISABLE”).

- 7 Press the \downarrow button, to display “>> ENABLE” in the status display.



8 Press the SET button.

When you next display the menu and change the item display, the extended menu will appear after the basic menu.

7-3-3 Using UMID Data

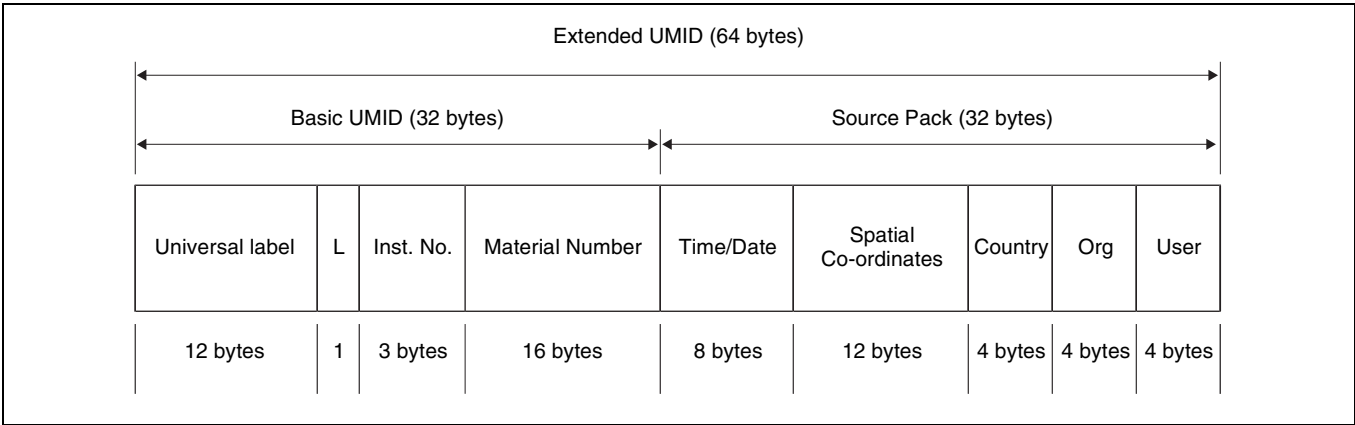
To perform operations from interviewing to editing effectively and to detect audio-visual materials easily when reusing them, metadata that provides additional information is recorded along with audio-visual data. As one of application of metadata, the UMID (Unique Material Identifier) is internationally standardized.

What is a UMID?

The UMID (Unique Material Identifier) is a unique identifier for audio-visual material defined by the SMPTE330M-2003 standard.

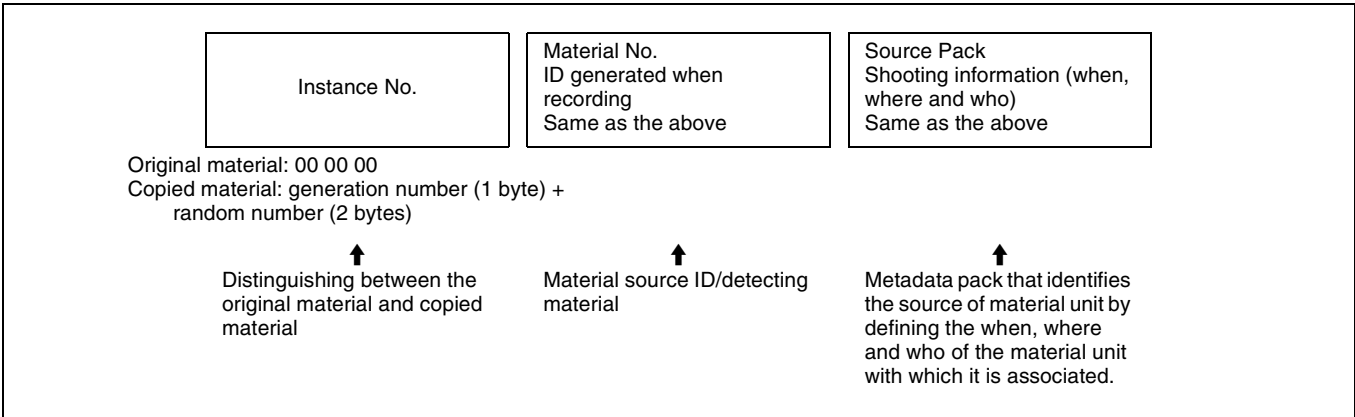
The UMID may be used either as the 32-byte Basic UMID or as the Extended UMID, which includes an additional 32 bytes of Source Pack to make a total 64 bytes.

For details, refer to SMPTE 330M.



Globally unique ID is automatically recorded in clip units. The Extended UMID is metadata that provides additional information such as location, time/date, company and so on.

The UMID is applied as follows.



Using the Extended UMID

You have to enter a country code, organization code and user code. Set the country code referring to the ISO-3166 table, and set the organization code and user code independently.

For details, see “About UMID ownership information” (page 78).

Functions of UMID data

The UMID data enables the followings:

- Add a globally unique ID to every clip of audio-visual material. The unique ID is used to detect the material source and to link it with the original source material.
- Distinguishing between original material and copied material. 00 is added to the Instance Number for original material.
- Recording based on the UTC. The UTC is used when recording the UMID. This enables uniform control of source material recorded all over the world based on the universal time code.
- Calculating the date difference among source materials. The source material is recorded based on the MJD (Modified Julian Date), which enables easy calculation of date difference among source materials.

Setting UMID ownership information

Proceed as follows.

- 1
- Set extended menu item 029 “STORED OWNERSHIP” to “on.”
- See 7-2-2 “Basic Menu Operations” (page 69) for more information about how to make this setting.

- 2
- Set the following item.

Item	Contents
COUNTRY	Country code
ORGANIZATION	Organization code
USER	User code

To change the currently selected item
Hold down the STOP button, and turn the jog dial.

To select a different digit to be changed
Turn the jog dial.

To change the value of a digit
Hold down the SHUTTLE button, and turn the jog dial.

- 3
- Press the SET button.

About UMID ownership information

COUNTRY (country code)

Enter an abbreviated alphanumeric string (4-byte alphanumeric strings) according to the values defined in ISO 3166-1.

There are about 240 country codes.
Find your own country code on the following home page.

Refer to ISO-3166-1:
<http://www.evertype.com/standards/iso3166/iso3166-1-en.html>

When the country code is less than 4 bytes, the active part of the code will occupy the first part of the 4-bytes and the remainder must be filled with the space character (20h).

Example: In the case of Japan
For Japan, if the country code is JP, it is 2 bytes, if JPN, it is 3 bytes.

Thus, enter the following:
JP _ _
or
JPN _
where _ represents a space.

ORGANIZATION (organization code)

Enter an abbreviated 4-byte alphanumeric string for the organization code.

Notes

- Organization codes must be acquired by applying to the SMPTE registration office.
When no organization code has been acquired, it is forbidden to enter an arbitrary string. As a rule, the code “00” must be entered. Freelance operators who do not belong to an origination should enter “~.”
- There are no problems in recording or playing back audio-video signals, if ORGANIZATION is not set.

USER (user code)

Enter the 4-byte alphanumeric strings for user identification.
The user code is registered with each organization locally. It is usually not centrally registered.
When the country code is less than 4 bytes, enter the country code from the beginning of the 4 bytes and enter the space character (20h) in the remaining strings.
This user code is determined by the organization. The methods used depend on the organization.

Note

User code cannot be entered when no organization code has been entered.

7-4 Maintenance Menu

7-4-1 Items in the Maintenance Menu

The maintenance menu includes the following items.
In the table, the underscored items are the factory default settings.

For details about DRIVE MAINTENANCE, ADJUST, CHECK, BATTERY CONFIG, SERVICE SUPPORT, and OTHERS, refer to the Maintenance Manual.

AUDIO CONFIG: items relating to audio control

Item		Setting
DATA LENGTH		When "IMX50," "IMX40," or "IMX30" is selected in setup menu item 031, this selects the audio quantization bit count and number of recording channels. 16 × 8: 16 bits × 8 channels 24 × 4: 24 bits × 4 channels Note When item 031 is set to "DVCAM," the setting is automatically fixed at 16 bits × 4 channels.
NON-AUDIO INPUT		Select whether to handle digital audio signals as non-audio signals during recording.
Sub-item		
1	tr1/tr2	audio: Handle as audio signals. data: Handle as non-audio signals.
2	tr3/tr4	
3	tr5/tr6	
4	tr7/tr8	

NETWORK CONFIG: items relating to network settings

Item		Setting
DHCP		Set whether to assign an IP address automatically with the DHCP server. DISABLE: Do not assign automatically. ENABLE: Assign automatically.
IP ADDRESS PRESET		Set IP address. 192.168.001.010 Note When DHCP is set to "ENABLE," it is not possible to set the IP address.
SUBNET MASK PRESET		Set the subnet mask. 255.255.255.000 Note When DHCP is set to "ENABLE," it is not possible to set the subnet mask.
DEFAULT GATEWAY PRESET		Set the default gateway. 000.000.000.000 Note When DHCP is set to "ENABLE," it is not possible to set the default gateway.
LINK SPEED		Set the communications speed. AUTO, 10Mbps, 100Mbps
DUPLEX		Set the communications method. AUTO Full Duplex: Full duplex Half Duplex: Half duplex

For details of how to make settings, see "To change network settings" (page 82).

SETUP MAINTENANCE: items relating to the setup menu

Item	Setting
EXTENDED MENU	Select whether or not to display the extended menu. DISABLE: Do not display. ENABLE: Display.
SETUP BANK4	Select the bank to be stored in menu bank 4, or reset menu bank 4. NO OPERATION: This function is disabled. CURRENT: Store the current menu settings in menu bank 4. BANK1: Store the menu bank 1 settings in menu bank 4. BANK2: Store the menu bank 2 settings in menu bank 4. BANK3: Store the menu bank 3 settings in menu bank 4. RESET BANK4: Reset menu bank 4.
SAVE MENU DATA	Select whether to temporarily back up (save) setup menu settings before operations such as software upgrades. SET button: Back up (save) the settings. MENU button: Return to next highest menu level without backing up.
LOAD MENU DATA	Select whether to restore (load) setting that were backed up (saved) with the "SAVE MENU DATA" item. SET button: Restore (load) the settings. MENU button: Return to the next highest menu level without restoring.
AUTO BANK RECALL	Select whether to recall settings automatically from a menu bank when the system is powered on, and if so which menu bank to recall from. off: Do not recall settings from a menu bank. from BANK1: Recall settings from menu bank 1. from BANK2: Recall settings from menu bank 2. from BANK3: Recall settings from menu bank 3. from BANK4: Recall settings from menu bank 4.
RESET ALL SETUP	Reset the current menu settings to the factory settings. SET button: Reset. MENU button: Return to the next highest menu level without resetting. Note The line mode setting is also cleared. If you execute this item, reset the line mode (see page 14).

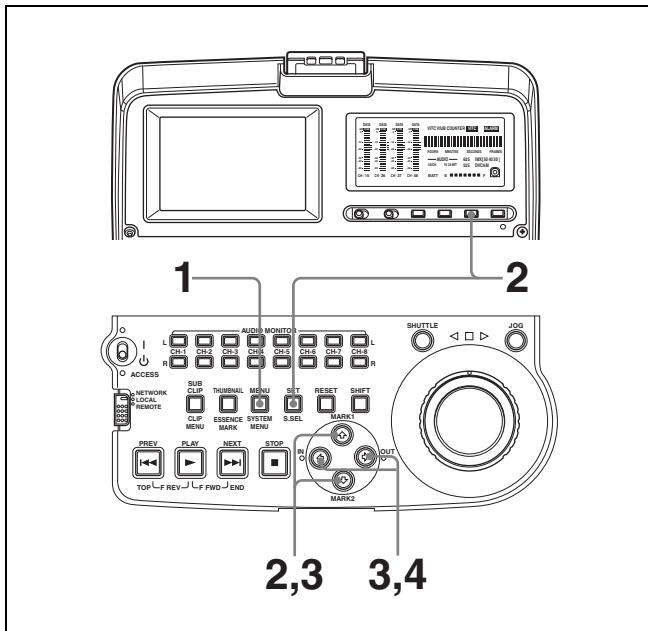
7-4-2 Maintenance Menu Operations

This section describes the indications in the maintenance menu and how to change the settings.

To display a menu item setting

To display the maintenance menu item settings, change the switch setting within the unit, then carry out the following operations.

For information about how to change the switch setting within the unit, see page 76.

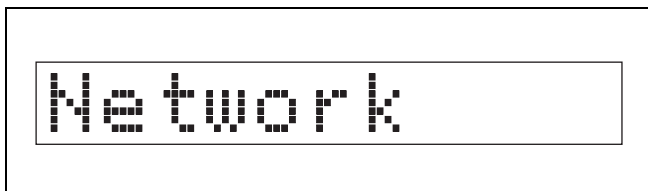


- 1 Press the MENU button.

The menu appears in the status display.

- 2 Hold down the COUNTER button, and press the SET button.

In the status display, first “MAINTENANCE MENU” appears momentarily, and then the item group name appears.

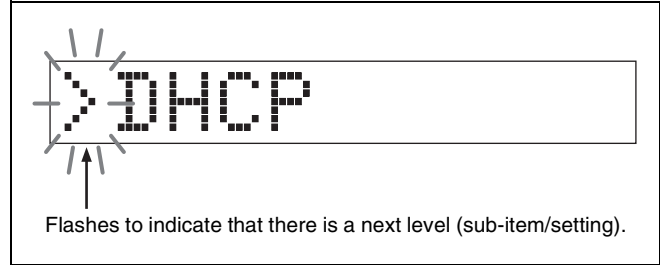


To change the item group

Use the \uparrow/\downarrow buttons.

- 3 Press the \Rightarrow button.

The item name appears.



To return to the item group

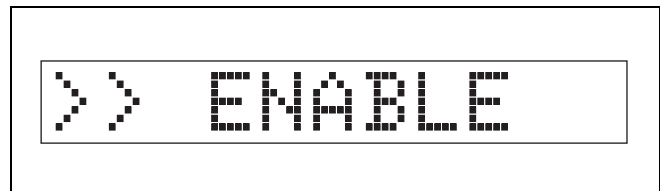
Press the \Leftarrow button.

To change the menu item

Use the \uparrow/\downarrow buttons.

- 4 Press the \Rightarrow button.

The setting value appears.



To return to the menu item

Press the \Leftarrow button.

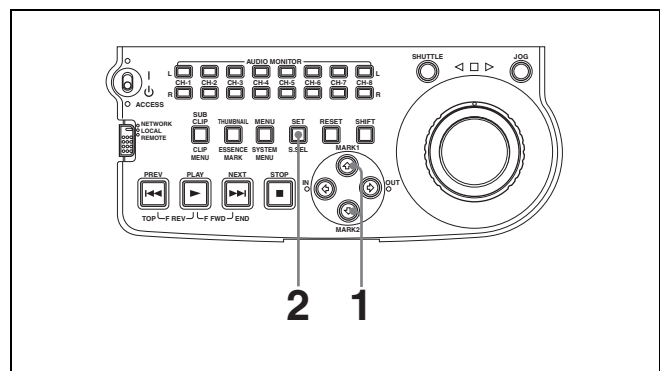
When there is a sub-item

Repeat step 3.

To change the setting of a menu item

To change the setting of the currently displayed menu item, carry out the following operations.

For details of changing settings of network-related items, see the next item, “To change network settings.”



- 1 Using the \uparrow/\downarrow buttons, display the desired setting.

- 2 Press the SET button.

This saves the new setting, and the menu disappears from the status display.

To cancel changing a setting

Before pressing the SET button, press the MENU button.

The menu disappears from the status display, without saving the new setting.

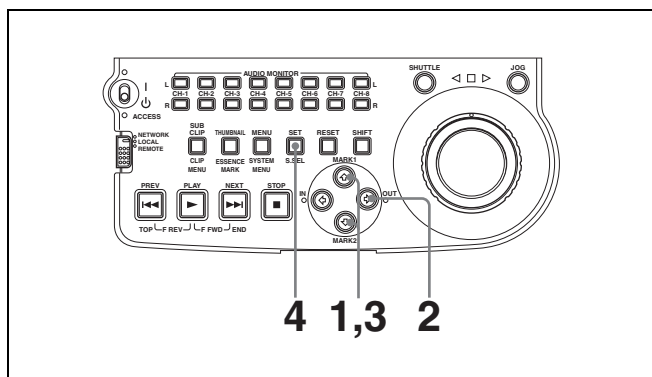
To change network settings

To change network settings, carry out steps **1** to **3** in the item, “To display a menu item setting” above, to display the NETWORK CONFIG menu item, then carry out the following operations.

For details of the settings, consult your network administrator.

When the IP address is assigned automatically

Check that the network cable is connected to this unit before carrying out the operation.



- 1 Using the \uparrow/\downarrow buttons, display “>DHCP.”
- 2 Press the \Rightarrow button.
- 3 Press the \downarrow button, to display “>> ENABLE.”
- 4 Press the SET button.

To check the assigned IP address

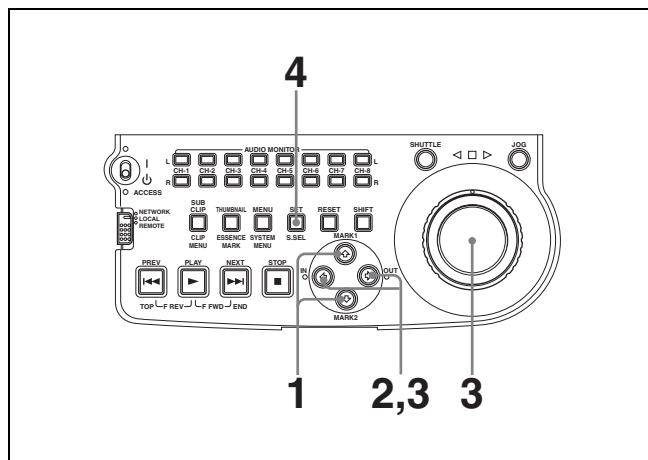
In the NETWORK CONFIG menu, using the \uparrow/\downarrow buttons, display “>IP address,” then press the \Rightarrow button.

Note

If the IP address cannot be assigned, this is shown as “000.000.000.000.” In this case, consult the network administrator.

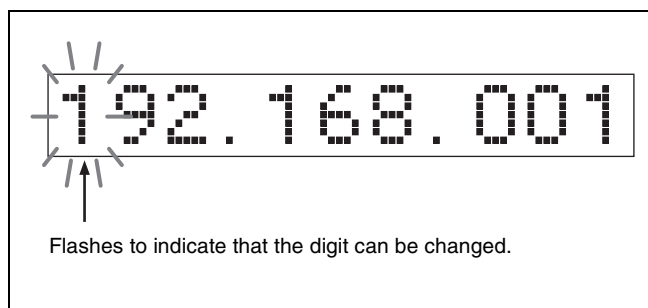
To set the IP address

First set DHCP to “DISABLE.” (See the previous item, “When the IP address is assigned automatically.”)



- 1 Using the \uparrow/\downarrow buttons, display “>IP address.”
- 2 Press the \Rightarrow button.

The IP address appears, and the digit that can be changed flashes.



Flashes to indicate that the digit can be changed.

- 3 Set the IP address.

To select a different digit to be changed

Use the \Leftarrow/\Rightarrow buttons.

To change the value of a digit

Turn the jog dial or shuttle dial.

Turning clockwise increases the value, and turning counterclockwise decreases the value.

The \uparrow/\downarrow buttons can be used.

To return to the factory default setting

Press the RESET button.

- 4 When all digits are set, press the SET button.

This returns to the NETWORK CONFIG menu.

To cancel a setting

Before pressing the SET button, press the MENU button.

This returns to the NETWORK CONFIG menu, without saving the new setting.

- 5 Repeat steps **1** to **4** as required, to set the subnet mask and default gateway.

- 6 In the NETWORK CONFIG menu, press the SET button.
- 7 When the “NOW SAVING...” message vanishes, power the unit off and then on again with the on/standby switch.

Setting the communications speed

Set the communications speed (LINK SPEED) and communications method (DUPLEX) to match the network environment.

For details of the operation, see “To change the setting of a menu item” (page 82).

7-5 System Menu

7-5-1 Items in the System Menu

The system menu includes the following items.

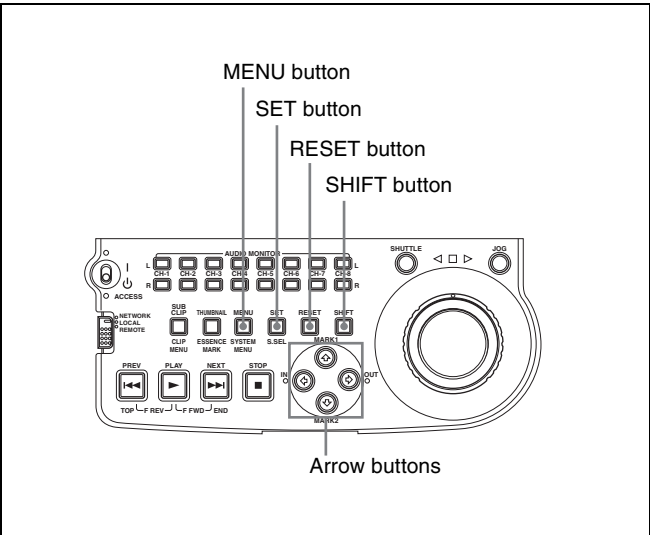
DISC MENU: items relating to disc

Item		Setting
STATUS		Display disc status or clip status.
Sub-item		Note Although the PDZ-1 Proxy Browsing Software can write TITLE1 and TITLE2, only TITLE1 is displayed here.
1	DISC	Display disc status.
2	CLIP	Display clip status.
DELETE		Delete clips on the disc.
Sub-item		
1	LAST CLIP	Delete the last clip.
2	ALL CLIP	Delete all the clips. (Files in the General directory cannot be deleted.)
FORMAT		Select the disc format, and carry out formatting.
Sub-item		
1	QUICK FORMAT	Quick format (Deletes all data on the disc, including the contents of the General directory.)

DATE/TIME PRESET: items relating to date and time setting

Item	Setting
YEAR	Set the year, month, day, time, and time zone.
MONTH	
DAY	
TIME	
TIME ZONE	

7-5-2 System Menu Operations



To display disc status and clip status

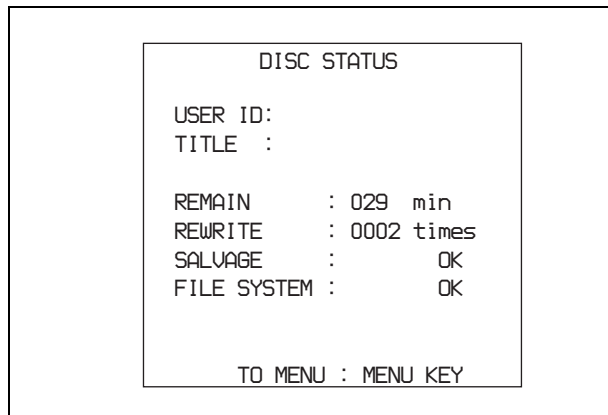
Insert a disc and proceed as follows.

- 1 Hold down the SHIFT button and press the MENU button.
The system menu appears on the image display.
- 2 Press the \uparrow button or \downarrow button to select “DISC MENU,” then press the \Rightarrow button.
The DISC MENU page appears.
- 3 Press the \uparrow button or \downarrow button to select “STATUS,” then press the \Rightarrow button.
The “STATUS” menu item appears.
- 4 Display the disc status or the status of the current clip.

To display the disc status

Press the \uparrow button or \downarrow button to select “DISC,” then press the \Rightarrow button.

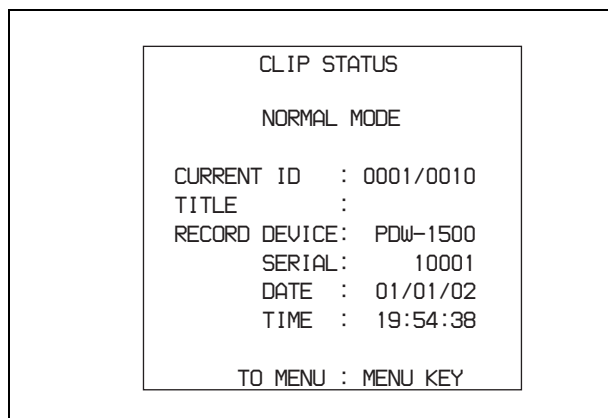
The status of the loaded disc appears.



To display the status of the current clip

Press the \uparrow button or \downarrow button to select “CLIP,” then press the \Rightarrow button.

The status of the clip at the current position appears. (When the current clip changes because of playback or a search, the display switches to the status of the new clip.)



To return to the previous menu page

Press the MENU button.

To exit the menu system

Press the MENU button twice.

To delete clips

Proceed as follows.

- 1 Carry out steps **1** and **2** in the previous section “To display disc status and clip status.”
- 2 Press the \uparrow button or \downarrow button to select “DELETE,” then press the \Rightarrow button.

The “DELETE” menu item appears.

- 3 Delete the last clip or all clips.

To delete the last clip

Press the \uparrow button or \downarrow button to select “LAST CLIP,” then press the \Rightarrow button.

The number of the clip to be deleted appears.

To cancel the deletion and return to the previous page, press the MENU button.

To delete all clips

Press the \uparrow button or \downarrow button to select “ALL CLIP,” then press the \Rightarrow button.

The message “ALL DELETE OK?” appears.

To cancel the deletion and return to the previous page, press the RESET button.

To cancel the deletion and exit the menu system, press the MENU button.

- 4 Press the SET button.

The last clip is deleted, or all clips are deleted.

To format discs

See 3-6-5 “Formatting a Disc” (page 37).

To set the date and time

See 3-4 “Setting the Date and Time” (page 34).

8-1 Periodic Maintenance

8-1-1 Digital Hours Meter

The digital hours meter can provide six items of information about the operational history of the unit. The information can be displayed in the time data display and also, by text superimposition, on the monitor connected to the unit. Use the information as a guide in scheduling periodic maintenance.

For periodic maintenance, consult your Sony dealer.

Display modes of the digital hours meter

H01: OPERATION mode

Displays the total number of hours the unit has been powered on in units of 1 hour.

H11: OPERATION mode (resettable)

Same as H01 except that the count is resettable.
This can be used as a guide in determining when to replace parts.

H12: LASER PARAMETER mode (resettable)

This shows the cumulative light output time for the optical head in units of hours. The count is resettable. This can be used as a guide in determining when to replace the optical head.

H13: SEEK RUNNING mode (resettable)

This shows the cumulative seek operation time for the optical head in units of hours. The count is resettable. This can be used as a guide in determining when to replace the seek motor.

H14: SPINDLE RUNNING mode (resettable)

This shows the cumulative spindle rotation time, in units of hours. The count is resettable.

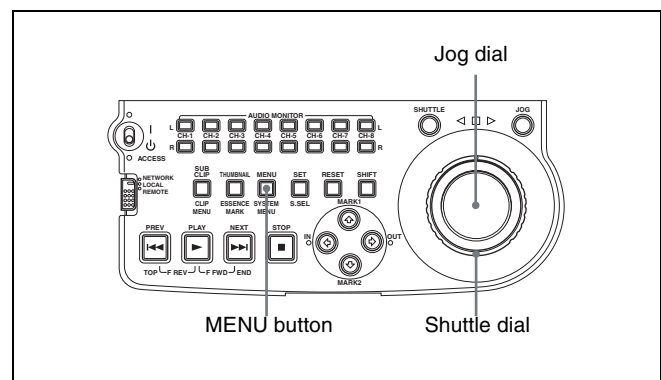
This can be used as a guide in determining when to replace the spindle motor.

H15: LOADING COUNTER mode (resettable)

Display the total number of times disc has been loaded in the unit. The count is resettable.

To display the hours meter

Press the MENU button, then turn the jog dial or shuttle dial to display the required item in the time data display and on the monitor connected to the unit.



To exit from the hours meter

Press the MENU button.

To jump to H01

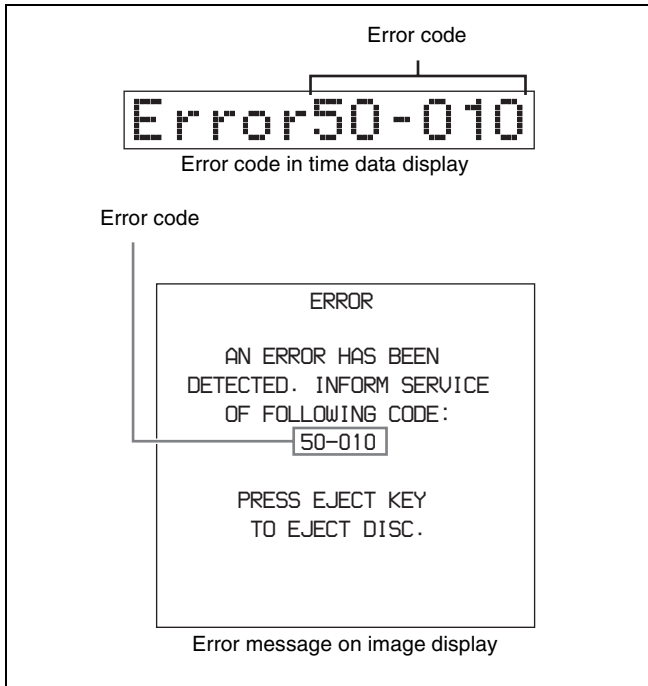
Press the MENU button, then the COUNTER button.
Every time you press the COUNTER button, menu item
H01 or B01 is recalled alternately.

8-2 Error Messages

Error codes appear in the time data display when an error (usually a hardware problem) occurs. Error codes and error messages appear on the image display.

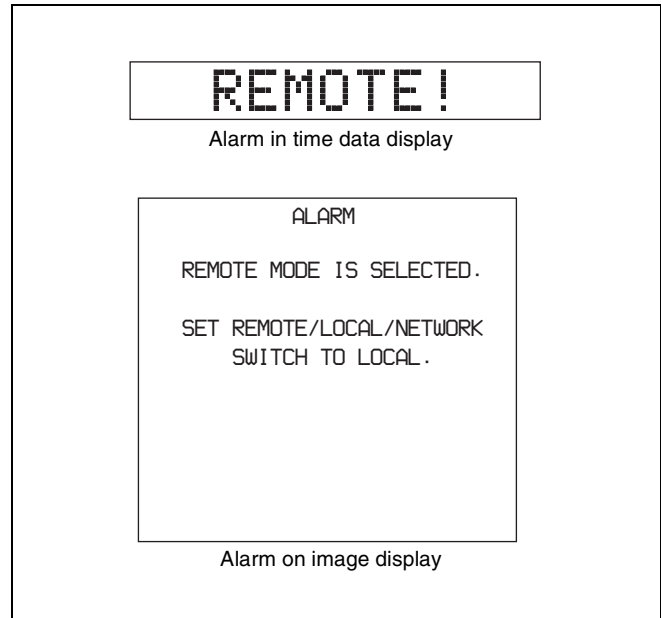
When an error message appears, follow the instructions in the error message to resolve the problem.

Error code



8-3 Alarms

An alarm (warning message) appears in the time data display when an operation is attempted which is inappropriate for the settings on this unit or the state of the disc. The image display shows the alarm message and also the action to take to resolve the problem.



8-3-1 Alarm List

The following tables list the alarms displayed by this unit, categorized according to the state of the unit when the alarms occur.

The setting of basic menu item 016 “ALARM DISPLAY” determines whether or not some of these alarms appear. The “Display condition” column in the tables shows whether the alarm is displayed according to or regardless of the setting of menu item 016.

off: Always display, regardless of the setting.

limit: Display when the setting is “limit” or “on.”

on: Display only when the setting is “on.”

See 7-2-2 “Basic Menu Operations” (page 69) for more information about how to set menu item 016.

When the unit is powered on

Message in time data display	Display condition ^{a)}	Description	Action
MENU Ver.UP	off	Setup menu settings were reset, because this unit was upgraded.	Reset the setup menu items. <i>See 7-2-2 "Basic Menu Operations" (page 69) and 7-3-2 "Extended Menu Operations" (page 75) for information about making setup menu settings. Maintenance menu item "SETUP MAINTENANCE" - "SAVE MENU DATA/LOAD MENU DATA" (see page 80) can be used to temporarily back up and restore the current menu settings.</i>
ILL. SETUP!	off	Setup menu data is invalid, or data recalled with the maintenance menu item "SETUP MAINTENANCE" - "AUTO BANK RECALL" is invalid.	Reset the items in the setup menu.
Exchg batt!	off	NVRAM battery is exhausted.	It is time to exchange the battery on the board. Contact your Sony service representative.
LOW BATT!	off	Battery pack power is low.	Exchange with a charged battery pack.
BATT EMPTY!	off	Battery pack power is exhausted.	<i>See 3-2-2 "Using a Battery Pack" (page 33) for more information about exchanging battery packs.</i>

a) With respect to setting of basic menu item 016

When a disc is inserted

Message in time data display	Display condition ^{a)}	Description	Action
Unknown FS!	off	The loaded disc was formatted by an unknown file system.	Eject or format the disc. <i>See 3-6-5 "Formatting a Disc" (page 37) for more information about formatting.</i>
No FS!	off	The file system cannot be detected.	Eject the disc.
ILL. Disc!	off	An unsupported disc was inserted.	
Salvage NG	off	Recovery of disc contents (salvage) failed.	<i>See 3-6-7 "Using the Salvage Function" (page 38).</i>
525/60 Clip	limit	A disc recorded in NTSC format was inserted when this unit is in 625 line mode (PAL system).	Use a disc recorded with the PAL system.
625/50 Clip	limit	A disc recorded in PAL format was inserted when this unit is in 525(U) or 525(J) line mode (NTSC system).	Use a disc recorded with the NTSC system.
IMX50 Clip IMX40 Clip IMX30 Clip DVCAM Clip	limit	The recording format of the loaded disc differs from the format specified with basic menu item 031 "RECORDING FORMAT."	To record on the disc, change the setting of basic menu item 031. <i>See 7-2-2 "Basic Menu Operations" (page 69) about how to change this setting.</i>
4CHx/24 Clip 8CHx16 Clip	limit	The number of channels and quantizing bits of the loaded disc differ from the specifications of maintenance menu item "AUDIO CONFIG" - "DATA LENGTH."	To record on the disc, change the setting of maintenance menu item "AUDIO CONFIG" - "DATA LENGTH." <i>See 7-4-2 "Maintenance Menu Operations" (page 81) about how to change this setting.</i>

Message in time data display	Display condition ^{a)}	Description	Action
ILL. Index!	off	An index file error was detected.	Format the disc. <i>For details, see 3-6-5 "Formatting a Disc" (page 37).</i>
FORMAT NG!	off	Automatic format failed.	Use another disc.
DISC ERROR!	limit	A disc error occurred during write back. Data could not be recorded normally.	This disc cannot be recorded. Exchange the disc.
DI read err	off	A disc read error occurred.	Try ejecting the disc and inserting it again, or insert another disc.
DRV ADJ err	off	Adjustment processing failed when a disc was inserted.	

a) With respect to setting of basic menu item 016

During playback

Message in time data display	Display condition ^{a)}	Description	Action
525/60 Disc	limit	An attempt was made to play back a disc recorded with the NTSC system when this unit is in 625 line mode (PAL system).	Use a disc recorded with the PAL system.
625/50 Disc	limit	An attempt was made to play back a disc recorded with the PAL system when this unit is in 525(U) or 525(J) line mode (NTSC system).	Use a disc recorded with the NTSC system.
No Support!	off	A disc recorded in an unsupported recording format was inserted.	Use a disc recorded in the MPEG IMX or DVCAM format.
Disc Error!	off	Normal playback is not possible because of a disc defect.	Use another disc. You can check the state of a disc by checking playback condition marks (see page 35).

a) With respect to setting of basic menu item 016

During control panel operations

Message in time data display	Display condition ^{a)}	Description	Action
REMOTE!	on	A button was pressed while the remote control switch was set to "REMOTE."	To operate from the control panel, wait until control by the remote device ends and then set the remote control switch to "LOCAL."
No Disc!	on	A button was pressed with no disc loaded.	Operate after inserting a disc.
REC INHI.!	on	An attempt was made to record, display an E-E display, record an essence mark, or add a quick scene selection sub clip.	Try the operation again after setting the write-protect tab to the recording enabled position.
REC INHI.!	limit	An attempt was made to save the current clip list on a write-protected disc.	
REC INHI.!	off	An attempt was made to delete a clip from a write-protected disc.	
REC INHI.!	off	An attempt was made to format a write-protected disc.	

Message in time data display	Display condition ^{a)}	Description	Action
No Clip!	limit	A playback or search button was pressed for a disc containing no recorded clips.	These operations are not possible.
No Clip!	off	An attempt was made to delete a clip from a disc containing no recorded clips.	
Disc Top!	limit	The PREV button was pressed while stopped at the top of the disc, or an attempt was made to perform a high-speed reverse search.	
Disc End!	limit	The NEXT button was pressed while stopped at the end of the disc, or an attempt was made to perform a high-speed forward search.	
MAX# SB CLP	off	An attempt was made to add a sub clip when the number of registered sub clips had already reached the upper limit (300) of the specifications of this unit.	These operations are not possible.
CL OVER DUR	off	An attempt was made to add a sub clip when the total duration of sub clips in the clip list had already reached the upper limit (24 hours) of the specifications of this unit.	
Run Salvage	off	A recording, E-E display, record an essence mark, or add a quick scene selection sub clip was attempted on a disc which requires clip recovery (salvage).	Try the operation again after executing the salvage function. <i>For details, see 3-6-7 "Using the Salvage Function" (page 38).</i>
No SEL List	limit	The SUBCLIP button was pressed without loading a clip list from the disc into the current clip list.	Try the operation again after loading a clip list. <i>For details, see 5-3-3 "Loading a Clip List From Disc Into the Current Clip List" (page 52).</i>
No SUB Clip	limit	A button in the playback control section was pressed when there were no sub clips in the current clip list.	Playback is not possible without a sub clip in the current clip list.
SB CLP mode	limit	The SHIFT button and the THUMBAIL button were pressed together with the SUBCLIP button lit.	Press the SUBCLIP button, turning it off, and try the operation again.
SUB CLIP NG	limit	The SHIFT and SET buttons were pressed together when IN and OUT points were not set correctly (the OUT point was set before the IN point, etc.).	Set the IN and OUT points correctly and try the operation again.
No List!	off	An attempt was made to delete a clip list with no clip lists saved on the disc.	This operation is not possible.
STOP ONCE!	limit	The SUBCLIP button was pressed during playback of a clip list.	Try the operation again after stopping playback.
STOP ONCE!	off	An attempt was made to display the CLIP menu during playback.	
No EM Space	off	Recording of an essence mark failed because the number of essence marks recorded on the disc reached the upper limit of the specifications of this unit.	Use the PDZ-1 Proxy Browsing Software to delete unneeded essence marks.
EM Full!	off	An attempt was made to add an essence mark with the number of recorded essence marks at the upper limit of the specifications of this unit.	

Message in time data display	Display condition ^{a)}	Description	Action
Formatting!	off	An attempt was made to display the DISC MENU page in the system menu during an auto format.	Wait until the end of the auto format.
Disc Damage	off	An attempt was made to record, display an E-E picture, record an essence mark, or add a quick scene selection sub clip when there was no free sparing area.	This disc cannot be recorded. Exchange the disc.
Non AV Full	off	An attempt was made to record, display an E-E picture, record an essence mark, or add a quick scene selection sub clip when there was no free Non-Real-Time space.	Insert a different disc with enough free capacity.

a) With respect to setting of basic menu item 016

During reception of commands from an external device connected to the REMOTE connector

Message in time data display	Display condition ^{a)}	Description	Action
MAX# SB CLP	off	A command was received to add a sub clip when the number of registered sub clips had already reached the upper limit (300) of the specifications of this unit.	These operations are not possible.
CL OVER DUR	off	A command was received to add a sub clip when the total duration of sub clips in the clip list had already reached the upper limit (24 hours) of the specifications of this unit.	
Non AV Full	off	A command was received to record, display an E-E picture, record an essence mark, or add a quick scene selection sub clip when there was no free Non-Real-Time space.	Insert a different disc with enough free capacity.
No Disc!	on	A recording, playback, search, or other command was received with no disc loaded.	Try the operation again after loading a disc.
No Clip!	limit	A playback or search command was received for a disc containing no recorded clips.	These operations are not possible.
Disc Top!	limit	A PREV or reverse high-speed search command was received with the disc stopped at the top.	
Disc End!	limit	A NEXT or forward high-speed search command was received with the disc stopped at the end.	

a) With respect to setting of basic menu item 016

Alarms relating to sensors and drives

Message in time data display	Display condition ^{a)}	Description	Action
HUMID!	off	Condensation was detected in the unit.	See 8-4 "Condensation" (page 93).

Message in time data display	Display condition ^{a)}	Description	Action
FAN Stopped	off	The motor of the main unit fan has stopped.	Contact your Sony service representative.
DR-FAN Stop	off	The motor of a drive fan has stopped.	Note The unit will operate, but continued use in this state will result in rising temperatures in the unit or drive, with the risk of fire or damage to the unit.
High TEMP!	off	Temperatures have risen within the unit.	
High TEMP!	off	Temperatures have risen within a drive.	

a) With respect to setting of basic menu item 016



8-4 Condensation

When this unit is moved from a cold place to a warmer place, or operated in high humidity, condensation may form on the optical pickup. This is called condensation, and if the unit is operated in this state, it may make correct playback impossible.

Note the following points, to avoid problems with condensation.

- When moving the unit under conditions in which condensation is likely, first insert the disc, and close the lid on the disc slot.
- If when you move the on/standby switch to the **I** position the indication “HUMID” appears in the status display, do not insert a disc until the indication disappears.

Appendixes

Specifications

General

Power requirements

100 V to 240 V AC, 50/60 Hz
DC (with battery)

Power consumption

45 W

Peak inrush current

- (1) Power ON, current probe method:
44 A (240 V), 17 A (100 V)
- (2) Hot switching inrush current,
measured in accordance with
European standard EN55103-1: 13 A
(230 V)

Operating temperature

5°C to 40°C (41°F to 104°F)

Storage temperature

–20°C to +60°C (–4°F to +140°F)

Operating relative humidity

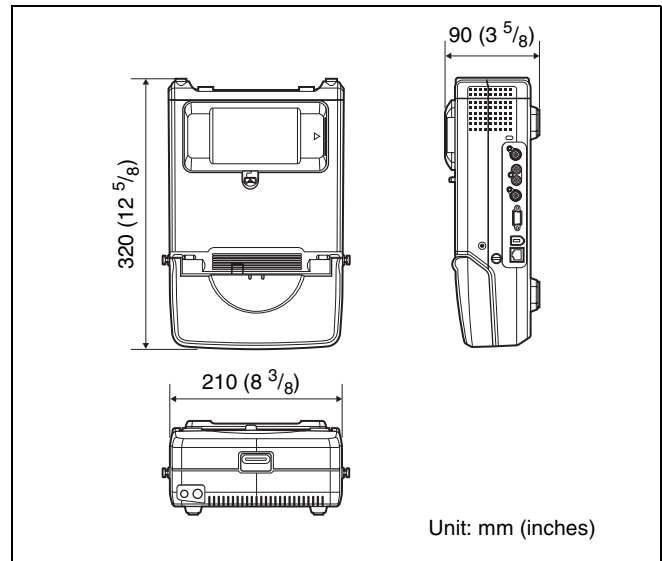
25% to 90%
Less than 90%

Mass

3.5 kg (7 lb 11 oz)

External dimensions (w/h/d)

210 × 90 × 320 mm
(8³/₈ × 3⁵/₈ × 12⁵/₈ inches)



System

Recording format

Proxy video

MPEG-4¹⁾

Proxy audio

A-law (8/4 channels, 8 bits, 8 kHz)

1) The MPEG-4 Codec is a product of Ingenient Technologies, Inc.

Playback format

Video MPEG IMX (50/40/30 Mb/s), DVCAM
(25 Mb/s)

Proxy video

MPEG-4

Audio

MPEG IMX: 16 bits/48 kHz (8 channels)
or 24 bits/48 kHz (4 channels)
DVCAM: 16 bits/48 kHz (4 channels)

Proxy audio

A-law (8/4 channels, 8 bits, 8 kHz)

Recording/Playback time

MPEG IMX

50 Mb/s: 45 min.

40 Mb/s: 55 min.

30 Mb/s: 68 min.

DVCAM 85 min.

Search speed

Jog mode

±1 times normal speed

Shuttle mode

±20 times normal speed

Video performance

Sampling frequency

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization

10 bits/sample

Output/input connectors

VIDEO OUT BNC ×1 (character out), 1.0 V_{p-p}, 75 Ω,
sync negative

SDI OUT BNC ×1 (character out)
SDI format, SMPTE 259M (ITU-R
BT656-3), 270 Mb/s

MONITOR D-sub 15-pin ×1, analog RGB
Scanning frequency (525-line mode):
horizontal 31.5 kHz, vertical 60 Hz
Scanning frequency (625-line mode):
horizontal 31.2 kHz, vertical 50 Hz

AUDIO MONITOR OUT

RCA ×2 (L, R), -6 dBu, 47 kΩ,
unbalanced

PHONES Jack ×1, -16 dBu, 8 Ω, unbalanced

iS400 (i.LINK) 6-pin, complying with IEEE 1394

LAN (network) 100Base-TX (RJ-45 ×1)

Accessories supplied

Operation manuals (2)

English version (1)

Japanese version (1)

CD-ROM manual (1)

PDZ-1 Proxy Browsing Software (1)

Shoulder belt (1)

Accessories not supplied

AC power cord

- For the customers in the U.S.A and Canada
Part No. 1-551-812-41 (125 V, 10 A, about 2.4 m)
- For the customers in the United Kingdom
Part No. 1-777-823-12 (250 V, 10 A, about 2.0 m)
- For the customers in European countries other than the
United Kingdom
Part No. 1-551-631-61 (250 V, 10 A, about 2.0 m)

Related products

Battery packs

BP-L60S, BP-GL65, BP-GL95, BP-
M100

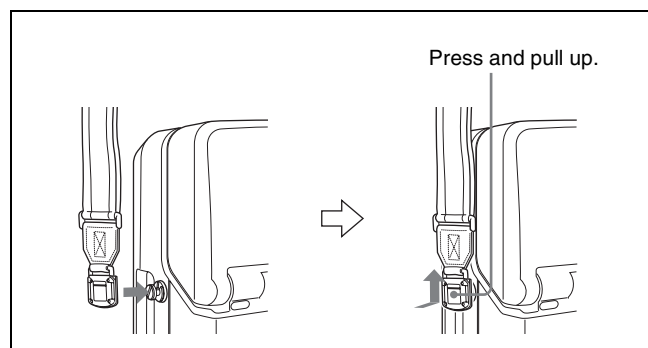
Design and specifications are subject to change without notice.

Using the Shoulder Belt

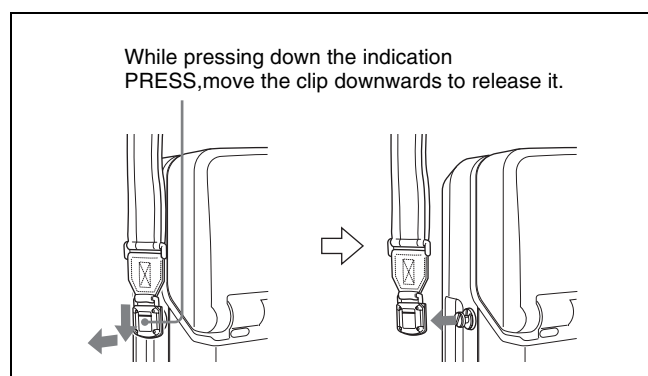
The following figures show how to fit the supplied shoulder belt.

Caution

If you fit the shoulder belt incorrectly, the unit may fall down and cause body injury. Follow the procedures described below to fit or remove the shoulder belt.



To remove the shoulder belt



Glossary

AES/EBU

A standard established jointly by the AES (Audio Engineering Society) and EBU (European Broadcasting Union) for serial transmission of digital audio. Two channels of audio can be transmitted via a single connector.

Clip

A recording unit. Clips are created every time recording starts and stops.

Clip list

A list of locations in the material recorded on the disc, arranged in any order. Clips lists can be created with the scene selection function of this unit, and with the supplied PDZ-1 Proxy Browsing Software.

Color subcarrier

In a composite video signal, a signal superimposed upon the picture (luminance) information for the purpose of conveying the associated color information. Color and saturation information is conveyed by the phase and amplitude of the color subcarrier. Also called subcarrier.

Composite video signal

A video signal in which luminance and chrominance are combined along with timing reference “sync” information to make composite video.

Drop frame mode

SMPTE time code runs at 30 frames/second, while the NTSC color television system runs at about 29.97 frames/second. Drop frame mode adjusts the running of time code to eliminate the discrepancy between time code value and actual time by dropping two frames from the time code value at the beginning of each minute except every tenth minute.

E-E mode

Electric-to-Electric mode. When you operate a VDR in E-E mode, input video and/or audio signals pass

through electric circuits only and then come out from the output connectors, without passing through electromagnetic conversion circuits such as recording heads.

Essence mark

A type of metadata that may be set for a specified frame.

For more efficient searches, XDCAM equipment records essence marks as part of Non-RealTime metadata, and uses them to display thumbnails.

i.LINK

Another name for the IEEE1394-1995 standards and their revisions. XDCAM uses the i.LINK interface to transfer DV streams by the AV/C protocol, and to read and write MPEG IMX and DVCAM data files by FAM (file access mode).

Metadata

Information about the properties of video and audio content. XDCAM records metadata such as UMIDs and essence marks, and the supplied PDZ-1 Proxy Browsing Software can be used to record information such as titles and comments.

MXF

Material eXchange Format. A file exchange format developed by the Pro-MPEG Forum. Equipment from different manufacturers can exchange files in this format.

Non-audio

General term for audio signals other than linear PCM, such as Dolby E and Dolby Digital (AC-3).¹⁾ XDCAM can record non-audio as an input signal.

1) Dolby is a trademark of Dolby Laboratories.

Non-drop-frame mode

A mode of advancing time code which ignores the difference in frame values between real time and the time code. Using this mode produces a difference of approximately 86 seconds per day between real time and time code, which causes problems when editing programs in units of seconds using the number of frames as a reference.

Proxy AV data

Low-resolution data with a video bandwidth of 1.5 Mbps and an audio bandwidth of 64 kbps per channel. This unit records proxy AV data automatically whenever high-resolution MPEG IMX or DVCAM data is recorded.

Reference video signal

A video signal that contains a sync signal or sync and burst signals, used as a reference for synchronization of video equipment.

SDI

Serial Digital Interface. An interface standardized as SMPTE 259M which enables the transmission of an uncompressed digital component stream.

S/N

Signal-to-Noise ratio. The relation of the strength of the desired signal to the accompanying electronic interference, the noise. If S/N is high, sounds are reproduced with less noise and pictures are reproduced clearly without snow.

SNMP

Simple Network Management Protocol. XDCAM uses this protocol to monitor equipment operating status via network connectors.

Sub clip

One of the sections which make up a clip list. A sub clip may be part of a clip or an entire clip.

Thumbnail image

A reduced still picture of video for display on a GUI screen. XDCAM creates thumbnail images from proxy video, and displays them as index pictures on GUI screens.

Time code

A digitally encoded signal which is recorded with video data to identify each frame of the video by hour, minute, second and frame number. SMPTE time code is applied to NTSC system, and EBU time code to PAL and SECAM systems.

UMID

Unique Material Identifier. A standard (SMPTE 330M) for video and audio metadata. The Basic section of a UMID contains a globally unique number and a material number for the identification of recorded material. An optional section called the “Source Pack” contains information such as the time and location of recording. A UMID with the Basic section only is called a Basic UMID. A UMID with the Source Pack is called an Extended UMID.

User bits

A total of 32 bits are provided in the time code which the user can use to record such information as date, reel number, or scene number on video tape. Also called user’s bits.



Index

A

- AC power
 - inlet connector 19
 - switch 19, 39
- ACCESS indicator 20, 24
- Accessories
 - not supplied 95
 - supplied 95
- ALARM indicator 25
- Alarms 87
 - list 87
- Analog interfaces 17
- Appendixes 94
 - specifications 94
 - using shoulder belt 95
- Arrow buttons 21
- AUDIO indicators 25
- Audio level meters 24
- AUDIO MONITOR
 - buttons 20, 39
 - OUT L/R connectors 28
- AV/C protocol 27

B

- Basic setup menu 67
 - items 67
 - operations 69
- BATT display 25
- Battery pack shoe 19
- Battery packs 33

C

- CD-ROM manual 18
 - system requirements 18
- CH1-4/5-8 button 26
- CHARACTER button 26
- Clip list 44, 45
 - creating 46
 - current clip list 45
 - editing 48
 - operations 51
- Configuration 19
- Connections 29
 - external monitor 29
 - for using PDZ-1 30
 - nonlinear editing system 32
- Connectors 19, 27
- Control panel 19, 20
- COUNTER 26
 - button 26, 39
 - indicator 25

D

- Date/time setting 34
- Digital
 - hours meter 86
 - interfaces 17
- Disc loaded mark 25
- Discs
 - formatting 37
 - handling 36
 - loading/unloading 37
 - usable discs 36
 - write-protecting 36
- Display setting section 25
- Drop frame mark 35

E

- Editing 45
- EJECT button 19
- Ejecting a disc manually 38
- Error messages 87
- Essence mark 43
- Essence mark recording 40
- Extended setup menu 72
 - items 72
 - operations 75
- External monitor connection 29

F

- Features of PDW-V1 16
- File access mode (FAM)
 - file operations 58
- File operations 55
 - directory structure 55
 - file access mode (FAM) 58
 - FTP 59
 - restrictions 56
- 525/625 indicator 25
- Formatting a disc 37
- Forward high-speed search 22
- FTP
 - command lists 61
 - file operations 59

G

- Glossary 96

I

- i.S400 (i.LINK) connector 27
- Image display 24
- IMX/DVCAM indicator 25
- IN/OUT
 - button 21
 - indicator 22
- Indicators on back of LCD panel 24

- Interfaces 17

J

- Jog
 - dial 21
 - mode 41
- JOG button 21
- Jog/shuttle
 - control block 21
 - transport indicators 21

L

- LCD panel 19, 24
- LEVEL knob 27
- LIGHT switch 25
- Line mode
 - setting 14
- LOCAL 20

M

- Maintenance 86
 - periodic 86
- Maintenance menu 79
 - items 79
 - operations 81
- MARK1/MARK2 button 21
- MENU button 22
- Menu system
 - configuration 66
- Menus 66
 - basic setup menu 67
 - extended setup menu 72
 - maintenance menu 79
 - system configuration 66
 - system menu 84
- Metadata 17
- MONITOR switch 25

N

- Names and functions of parts 19
- NETWORK 20
 - access indicator 20
- Network connector 27
- NEXT button 22
- Nonlinear editing system connection 32
- Number of channels 25

O

- On/standby
 - indicator 20, 24
 - switch 20, 39
- Operating mode selection/menu setting section 22

Operation mode 35
Overview 16

P

PDZ-1 30, 54
 installation 54
 system requirements 54
Periodic maintenance 86
PHONES jack 27
Playback 39
 clip list 44
 condition displays 35
 controls 22
 jog mode 41
 normal speed 40
 preparations 39
 shuttle mode 41
 start position 40
Power
 AC power 33
 battery packs 33
 preparations 33
Preparations 29
PREV button 22
Proxy Browsing Software (See also
 "PDZ-1") 30, 54
Proxy data 16

Q

Quick scene selection 47

R

Recording
 essence mark 40
Related products 95
REMOTE 20
Remote control switch 20, 39
RESET button 22
Reverse high-speed search 22

S

Salvage function 38
Scene selection 45
 quick scene selection 47
SDI OUT connector 28
Security slot 19
SET button 22
Setup 33
SHIFT button 22
Shoulder belt 95
 posts 19
Shuttle
 dial 21
 mode 41
SHUTTLE button 21

SNMP 17
Specifications 94
Status display 24
STOP button 23
Sub clip 45
SUBCLIP button 22
Superimposed text information (See
 also "Text information") 34
System menu 84
 items 84
 operations 84

T

TC 26
TC/VITC
 button 26, 39
 indicator 25
Text information 34
 display adjustment 34
 information displayed 34
 operation mode 35
 TC reader drop frame mark 35
 time data 34
 VITC field mark 35
THUMBNAIL button 22
Thumbnail search 16, 42
Time data
 display 25
 types 34
Troubleshooting 86

U

UB 26
UB/VIUB indicator 25
UMID data 77

V

VGA output 17
VIDEO OUT connector 28
VITC
 field mark 35
 indicator 25

W

WARNING indicator 25, 26
Write-protecting discs 36

The material contained in this manual consists of information that is the property of Sony Corporation and is intended solely for use by the purchasers of the equipment described in this manual.

Sony Corporation expressly prohibits the duplication of any portion of this manual or the use thereof for any purpose other than the operation or maintenance of the equipment described in this manual without the express written permission of Sony Corporation.

